



# SBIR/STTR PHASE I GRANTEE WORKSHOP

MARCH 8-10, 2010

HYATT REGENCY CRYSTAL CITY  
2799 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VA 22202



DIVISION OF INDUSTRIAL INNOVATION & PARTNERSHIPS,  
DIRECTORATE FOR ENGINEERING

[WWW.NSF.GOV/ENG/IIP/SBIR](http://WWW.NSF.GOV/ENG/IIP/SBIR)

# 2010



## Division of Industrial Innovation and Partnerships

Small Business Innovation Research (SBIR) /  
Small Business Technology Transfer (STTR)

### PHASE I GRANTEE WORKSHOP

*March 8-10, 2010*

Hyatt Regency Crystal City Hotel  
2799 Jefferson Davis Highway ■ Arlington, VA 22202

## AGENDA

### Monday, March 8, 2010

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<b>1:00 PM – 8:00 PM</b> <i>Regency Foyer</i>	<b>Registration Area Open</b>
<b>1:00 PM – 5:00 PM</b> <i>Regency CD</i>	<b>NSF One-on-One Meetings</b> <i>See schedule for mandatory appointment times</i>
<b>1:00 PM – 5:00 PM</b> <i>Regency A</i>	<b>Dawnbreaker One-on-One Meetings</b> <i>See schedule for appointment times</i>
<b>1:00 PM – 5:00 PM</b> <i>Regency B</i>	<b>Larta Institute One-on-One Meetings</b> <i>See schedule for appointment times</i>
<b>2:00 PM – 4:00 PM</b> <i>Regency Foyer</i>	<b>Coffee Break</b>
<b>6:00 PM – 8:00 PM</b> <i>Regency ABCD</i>	<b>Welcome Reception</b>

## Tuesday, March 9, 2010

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**7:00 AM – 8:00 AM**

*Regency Foyer*

**Registration Area Open**

**7:00 AM – 8:00 AM**

*Regency Foyer*

**Continental Breakfast Available**

**8:00 AM – 8:15 AM**

*Regency ABCD*

**NSF Welcoming Remarks**

*Michael Reischman, Deputy Assistant Director,  
Directorate for Engineering*

**8:15 AM – 8:30 AM**

*Regency ABCD*

**Introduction to IIP**

*Kesh Narayanan, Division Director, Industrial  
Innovation and Partnerships*

**8:30 AM – 8:45 AM**

*Regency ABCD*

**Conference Overview & How to Get Paid**

*Amanda Morris, Program Manager, SBIR/STTR  
Administrative and Technical Support Contract*

**8:45 AM – 9:15 AM**

*Regency ABCD*

**OLPA Overview**

*Josh Chamot, Public Affairs Specialist, Office of  
Legislative and Public Affairs*

**9:15 AM – 9:45 AM**

*Regency ABCD*

**Audit & Investigation**

*Monte Fisher, Senior Counsel, Office of Inspector  
General*

**9:45 AM – 10:15 AM**

*Regency ABCD*

**Phase IB Supplement and Review Process**

*Joseph Hennessey, Senior Advisor, Industrial  
Innovation and Partnerships*

**10:15 AM – 10:30 AM**

*Regency Foyer*

**Coffee Break**

**10:30 AM – 11:30 AM**

*Regency ABCD*

**Phase II Proposal Preparation & FastLane**

*Joseph Hennessey, Senior Advisor, Industrial  
Innovation and Partnerships  
Cheryl Albus, SBIR/STTR Program Director  
Joye Mitchell, Computer Specialist, OIRM/DIS*

**11:30 AM – 12:00 PM**  
*Regency ABCD*

**Phase II Budget Guidance and Requirements**  
*Greg Baxter, SBIR/STTR Program Director*

**12:00 PM – 1:00 PM**  
*Regency Foyer*

**Lunch break**  
*Box lunch available for purchase or on your own*

**1:00 PM – 2:00 PM**  
*Regency ABCD*

**Phase II Financial and Budget Reviews**  
*Carrie Davison, Cost Analyst, Division of Institution and Award Support*  
*Willie Mae Powell, Financial Review & Cost Analyst, Division of Institution and Award Support*

**2:30 PM – 3:00 PM**  
*Regency ABCD*

**Phase II Grant Process**  
*Jamie French, Team Lead, OPP/ENG Team, Division of Grants and Agreements*

**3:00 PM – 3:15 PM**  
*Regency Foyer*

**Coffee Break**

**3:15 PM – 3:45 PM**  
*Regency ABCD*

**Commercialization and Phase II Comm. Results**  
*Murali Nair, SBIR/STTR Program Director*

**3:45 PM – 4:45 PM**  
*Regency ABCD*

**SBIR Phase II Commercial Review Panel**  
*Panel discussion and Q&A with Phase II commercial reviewers from the MIT Enterprise Forum; Moderator: Errol Arkilic, SBIR/STTR Program Director*

**5:00 PM – 6:00 PM**

**Breakout Sessions**

- Biotech & Chemical Technology -  
*Regency A/B*
- Education Applications – *Regency C/D*
- Information & Communication Technology –  
*Regency Center*
- Nanotechnology, Advanced Materials & Manufacturing – *Regency C/D*

**6:00 PM – 7:30 PM**  
*Independence A*

**Networking Reception**

## Wednesday, March 10, 2010

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<b>7:00 AM – 8:00 AM</b> <i>Regency Foyer</i>	<b>Continental Breakfast Available</b>
<b>8:00 AM – 12:00 PM</b> <i>Regency ABCD</i>	<b>NSF One-on-One Meetings</b> <i>See schedule for mandatory appointment times</i>
<b>8:00 AM – 12:00 PM</b> <i>Potomac 1/2</i>	<b>Larta Institute One-on-One Meetings</b> <i>See schedule for appointment times</i>
<b>8:00 AM – 12:00 PM</b> <i>Potomac 3/4</i>	<b>Dawnbreaker One-on-One Meetings</b> <i>See schedule for appointment times</i>
<b>9:00 AM – 12:00 PM</b> <i>Potomac 5/6</i>	<b>CAAR Open Session</b> <i>Come by and ask questions about the cost analysis process and financial audits.</i>
<b>10:00 AM – 10:30 AM</b> <i>Regency Foyer</i>	<b>Coffee Break</b>
<b>12:00 PM – 1:00 PM</b>	<b>Lunch on your own</b>
<b>1:00 PM – 3:00 PM</b> <i>Regency ABCD</i>	<b>NSF One-on-One Meetings</b> <i>See schedule for mandatory appointment times</i>
<b>3:00 PM – 3:30 PM</b> <i>Regency Foyer</i>	<b>Coffee Break</b>
<b>1:00 PM – 5:00 PM</b> <i>Potomac 1/2</i>	<b>Larta Institute One-on-One Meetings</b> <i>See schedule for appointment times</i>
<b>1:00 PM – 5:00 PM</b> <i>Potomac 3/4</i>	<b>Dawnbreaker One-on-One Meetings</b> <i>See schedule for appointment times</i>

**WORKSHOP CONCLUDES**

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# **Introduction to Industrial Innovation & Partnerships (IIP)**

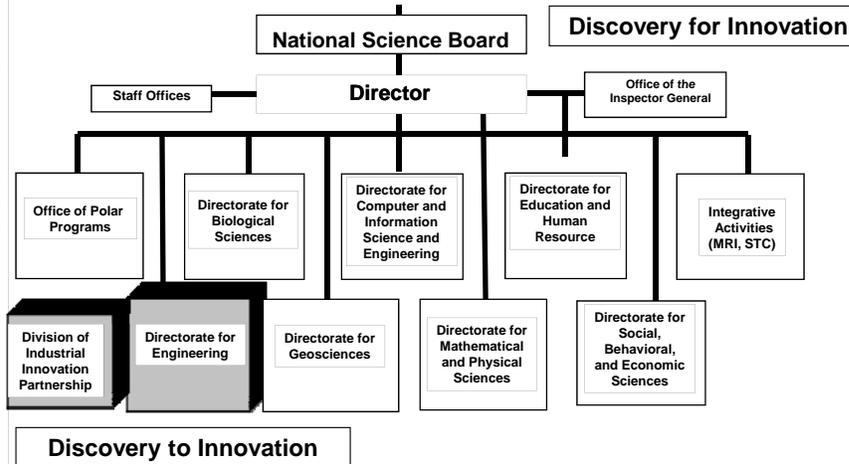
**Kesh Narayanan**

Division Director, Industrial  
Innovation & Partnerships



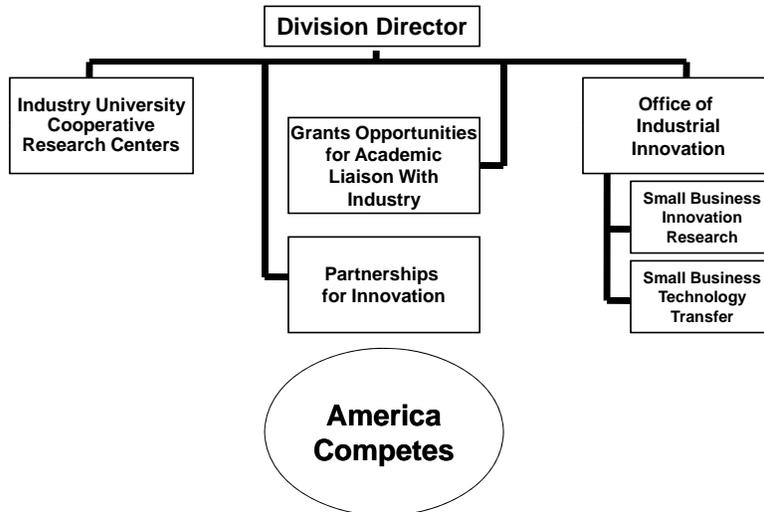
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# National Science Foundation



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# Industrial Innovation and Partnerships



America  
Competes

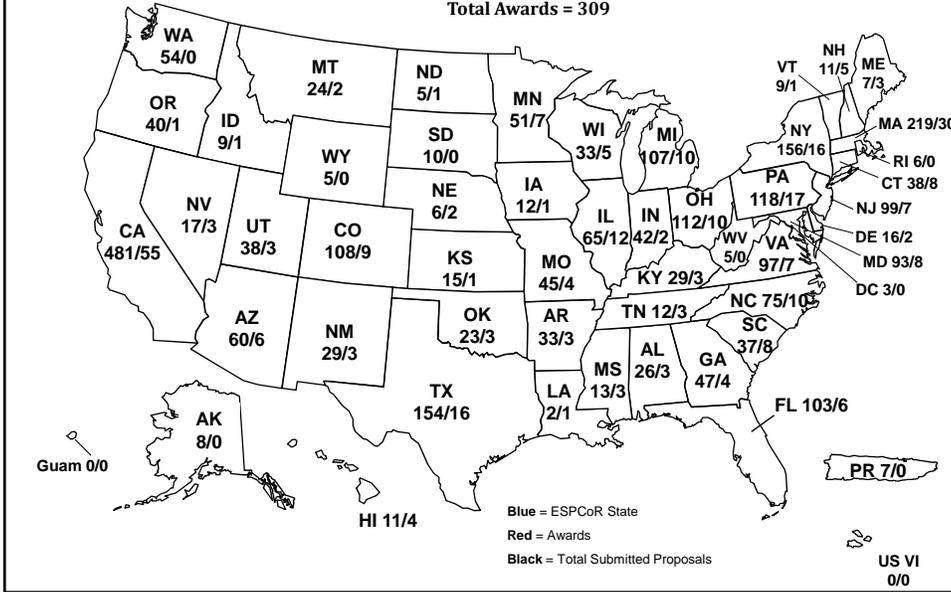
*Innovations through Partnership*



## 2009 Phase I Proposals

Total Submitted = 2825

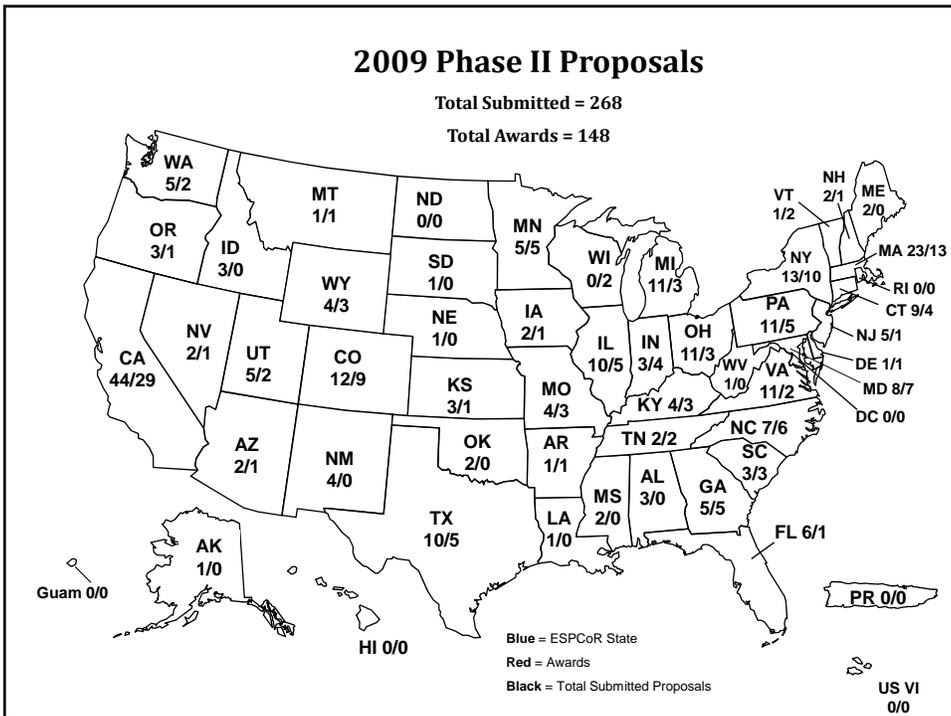
Total Awards = 309



## 2009 Phase II Proposals

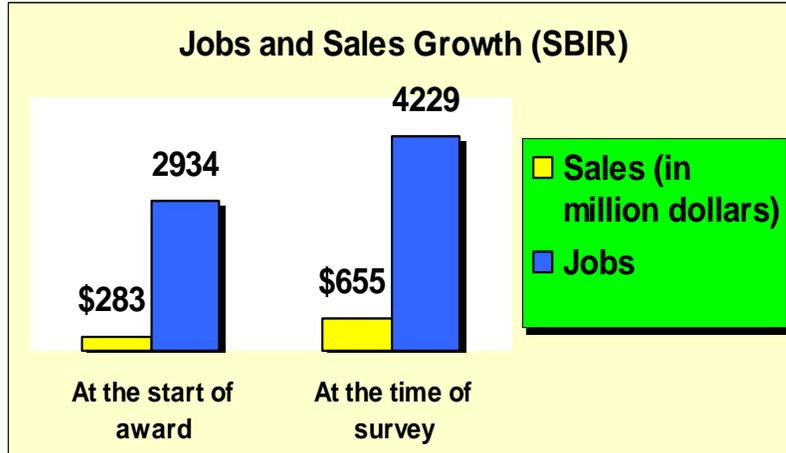
Total Submitted = 268

Total Awards = 148





# Economic Impact





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# **Phase I Reporting Requirements and How to Get Paid**

**Amanda Morris**

SBIR/STTR Support Contract

Program Manager





## Phase I Final Report

- Your grant expires on June 30<sup>th</sup> and your Final Report is **due in Fastlane by July 15<sup>th</sup>**
- Final Report should not exceed 15 pages of technical content
- Final Report submission in FastLane **must include a signed "Cover Page"** (you can not get paid without it!)
- Upload your Final Report & Cover Page as SINGLE .PDF file to FastLane!



### SBIR/STTR PHASE I FINAL REPORT COVER PAGE

NSF Award Number:	Project Title:	
Date:	Period Covered by this Report:	
Company Name:	PI Name:	Email:
Telephone Number:	Fax Number:	
Company Address:		

Please check as appropriate:

- Plan to submit Phase II Proposal:  January  July  
 Report contains Proprietary Information

#### Acknowledgment of NSF support and disclaimer:

"This material is based upon work supported by the National Science Foundation under Award Number: \_\_\_\_\_. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the views of the National Science Foundation."

#### Certifications:

I certify that the Principal Investigator currently is , is not , "primarily employed" by the grantee organization as defined in the SBIR Solicitation.

I certify that the work under this project has , has not , been submitted for funding to another Federal agency and that it has , has not , been funded under any other Federal grant, contract, or subcontract.

I certify that to the best of my knowledge the work for which payment is hereby requested was performed in accordance with the award terms and conditions and that payment is due and has not been previously requested.

I certify that to the best of my knowledge (1) the statements herein (excluding scientific hypotheses and scientific opinions) are true and complete, and (2) the text and graphics in this report as well as any accompanying publications or other documents, unless otherwise indicated, are the original work of the signatories or individuals working under their supervision. I understand that the willful provision of false information or concealing a material fact in this report or any other communication submitted to NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

Authorized Company Officer Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

PI Name: \_\_\_\_\_

P.I. Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**SBIR/STTR Final Report "Cover Page" is available on the SBIR/STTR website at <http://www.nsf.gov/e ng/iip/sbir/forms.jsp>**



## FastLane Reporting Module

- Login as Principal Investigator
- Click “Award & Reporting Functions”
- Click “Project Reports System”
- Select award for which report is due
- Click “Create/Edit” in Action field and then Continue

Annual/Final Project Report Requirements: [What do "NSF Report Status" and "My Submission Status" m](#)

To view a PDF of an approved Project Report, or to Create/Edit a Project Report for this award, click a link in the "Action" column below. To view a detailed history of Report Review comments, click any "View Comments" text link in the "Action" column.

4 reporting periods found, displaying 1 to 4

Report Requirement	Report Period Start Date	Report Period End Date	Report Due Date	Report Overdue Date	NSF Report Status	My Submission Status	Last Submission Date	Action
Annual	01/15/2007	01/14/2008	10/14/2007	01/14/2008	Approved	Submitted	03/16/2008	<a href="#">View PDF</a>
Annual	01/15/2008	01/14/2009	10/14/2008	01/14/2009	Overdue	Not Submitted	04/04/2009	<a href="#">Create/Edit</a>
Annual	01/18/2009	01/14/2010	10/14/2009	01/14/2010	Overdue	Not Submitted	--	<a href="#">Create/Edit</a>



## FastLane Reporting Module

e l e c t r o n i c b u s i n e s s

Home News Comments nsf.gov

Project Reports System Control  
Annual Project Report for Award 0707551  
Report Period - StartDate: 01-15-2008 | EndDate: 01-14-2009

Prepare Report [What?](#)    Check and Submit Report [What?](#)    Other Functions [What?](#)

Participants	Attach File	Review Facts and Contacts
Activities and Findings	Check Completeness	Review Past Submissions
Publications and Products	Review and/or Submit	Assign or Change PIN
Contributions		
Conference Proceedings		
Special Requirements		

Work On Another Award

More Information

Project-Reporting Changes

Reporting Requirements

Publicity, Privacy Act, Public Burden Statements

Report Preparation and Submission Instructions

About Project Reports System

Frequently Asked Questions



## Phase I Final Report

- Click on “Participants”
  - Name of Individuals
  - Role Played on the project
  - Extent of time put on the project
  - What the person has done on the project
- Click on “Activities and Findings”
  - Upload your technical report by clicking on the “Activities File” button
- Click on Publications and Products (if applicable)
- Click on Contributions (if applicable)



## How Do I Get Paid??

Your final payment will be released when the following tasks are accomplished:

- Your Final Technical Report (no more than 15 pages) and signed SBIR Cover Page is uploaded to FastLane as a single PDF document
- Your Program Director approves the report and sends a payment request to Division of Financial Management
- Payment typically takes 15-30 days AFTER the Program Director approves the report and requests payment





# **What is News? Communicating with - and through - the news media**

**Josh Chamot**

NSF Media Officer for  
Engineering Directorate





## Three key points . . .

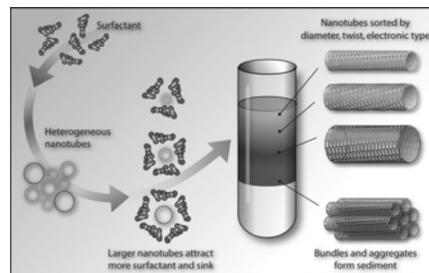
1. Know your audience
2. Outreach expands your audience
3. Interaction is not a crisis (you are not alone)



## Three key points . . .

### Know your audience

- Audience includes reporters, Hill staff, the taxpaying public who funded your work, etc.
- The better you understand your audience, the more likely they will understand you
- The more you respect your audience, the more they will respect you (and vice versa)





## Three key points . . .

### Outreach expands your audience

- *A larger audience equates to greater support for your research and the benefits of your work*



Nanoscience Program, University of Arkansas



## Three key points . . .

### Outreach expands your audience

- *An interview is a human interaction, the same rules apply: be confident, honest, respectful and open and the experience will go far better than if you are nervous, guarded, disrespectful and defensive*



Roald Hoffmann, Cornell University



## Three key points . . .

### Outreach expands your audience

- *An interviewer is coming to you for information; always try to provide them with something*



## Three key points . . .

### Outreach expands your audience

- *When a news story quotes you or your colleague, the reporter—and more likely the editor—may unintentionally misrepresent the facts . . . ironically, the "cure" is to have more interviews with more reporters*





## Three key points . . .

### You are not alone

- *Work with NSF*
- *Work with your university media office*



## Three key points . . .

### You are not alone

- *Work with your colleagues to help them understand that the future of your research depends on effective public communication*





# Conversations with "The Media"



*So how much smarter are you, really?*

**“Modal Mineralogy of the H-group Chondrites: Progressive Effects of Metamorphism”**

The modal mineralogy of ordinary chondrites is notoriously difficult to determine through optical point counts, and most researchers have relied upon CIPW normative mineralogy calculations to establish mineralogic trends. Our research uses electron microprobe point counts (up to 528,000 per thin section) to compare CIPW norms with ordinary chondrite modes. From this information, we will compare modal petrologic trends with normative trends.



**DO NOT USE JARGON**

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**The media will respond to news stories that originate from a variety of sources:**

Events with immediate societal impact (ex., the “cold fusion” announcement)

Perceived, actual, and manufactured trends

Publication in major journals (ex., *Science* and *Nature*)

Stories with human interest, such as those involving public figures or “overcoming adversity” – although these are hard to pitch



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*Reporters do not all come from one background*

Reporters may be trained in journalism only, in science or engineering, or in some combination of these fields.

**DO NOT USE JARGON**



Courtesy Georgia Tech Center for Low Cost Electronics Packaging Research; photo by Stanley F. Leary





*Reporters do not all come from one background*

Some reporters have a firm grasp of science and engineering, others may not – do not underestimate their ability to process complex information.

That said, err on the side of *simplicity* and . . .

**DO NOT USE JARGON**



Courtesy Georgia Tech Center for Low Cost Electronics Packaging Research; photo by Stanley F. Leary



We can often tell you if a reporter or producer is biased, has an agenda, or has a questionable reporting record.

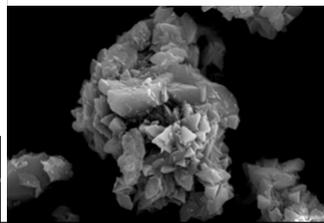




NSF requires grantees to acknowledge NSF funding when interviewed by the media.



If you are prepared for responding to the media, you will be prepared when a reporter calls with no warning.



Article 19, "Publications"

*a. Acknowledgment of Support.*

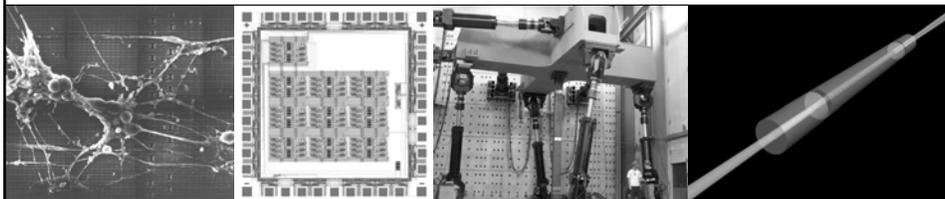
*2. NSF support must also be orally acknowledged during all news media interviews, including popular media such as radio, television and news magazines.*

### *Working with NSF Media Relations*

Provide timely information – well in advance of journal publication dates or meetings.

Be available to speak to the media

When you are queried, let us know – we can track media interest





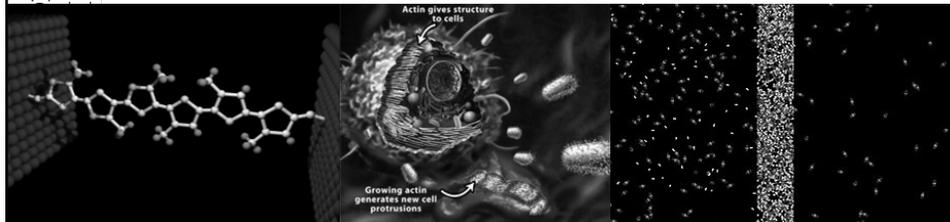
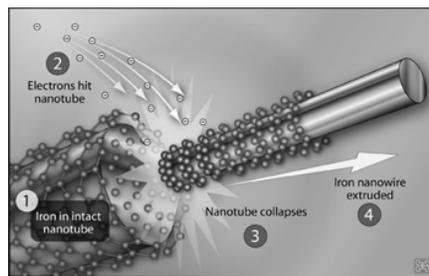
*OLPA both works with the commercial broadcast media and produces video segments of its own . . .*

- On-camera interview preparation
- Video News Releases
- “B-Roll”
- Archival Footage
- Animations
- Illustrations



We need photos  
(Preferred print resolution: 5” X 7” and 300 dpi or greater)

We need other graphic elements  
(OLPA can create these with your help)



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SEARCH

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**News**



News

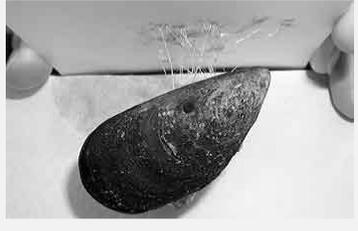
- For the News Media
- Special Reports
- Research Overviews
- NSF-Wide Investments
- Speeches & Lectures
- Multimedia Gallery
- NSF Current Newsletter
- News Archive

News by Research Area

- Arctic & Antarctic
- Astronomy & Space
- Biology
- Chemistry & Materials
- Computing
- Earth & Environment
- Education
- Engineering

**Press Release 04-002**  
**Chemists Crack Secrets of Nature's Super Glue**

**Mussel-powered proteins stick to Teflon, even under water**



Common blue mussel (*Mytilus edulis*) hangs tough.  
[Credit and Larger Version](#)

**January 12, 2004**

ARLINGTON, Va.—Researchers have discovered that iron in seawater is the key binding agent in the super-strong glues of the common blue mussel, *Mytilus edulis*. This is the first time researchers have determined that a metal such as iron is critical to forming an amorphous, biological material.



Common blue mussel (*Mytilus edulis*) from coastal Maine extends its foot for the camera.  
[Credit and Larger Version](#)



The small colony of common blue mussels adhered to this glass plate.  
[Credit and Larger Version](#)



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SEARCH

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**News**



News

- For the News Media
- Special Reports
- Research Overviews
- NSF-Wide Investments
- Speeches & Lectures
- Multimedia Gallery
- NSF Current Newsletter
- News Archive

News by Research Area

- Arctic & Antarctic
- Astronomy & Space
- Biology
- Chemistry & Materials
- Computing
- Earth & Environment
- Education

**Media Advisory 06-027**  
**Panel Set to Present Astronomy Program Recommendations to NSF**

**Senior review committee to answer reporter questions at 2:00 p.m. on Nov. 3 October 26, 2006**

For decades, the National Science Foundation (NSF) has supported cutting-edge astronomy research that has transformed our understanding of the universe. To ensure that NSF's astronomy programs continue to push the edge of scientific discovery, NSF charged a special committee to examine how the division's limited resources can be applied to future needs and to recommend steps to meet this goal. The group will present its recommendations to the Mathematics and Physical Sciences Advisory Committee on Friday, Nov. 3, 2006, at NSF headquarters.

The recommendations are based on a year of town-hall meetings, community visits and consultations.

**What:** Senior Review Committee Recommendations for NSF's Astronomy Programs  
Presentation and reporter call-in during Mathematics and Physical Sciences Advisory Committee.

**When:** Presentation at 9:00 a.m. Reporter call-in at 2:00 p.m.  
*Call-in details:* Start time: 2:00 p.m. sharp  
USA toll-free number: 888-566-5771  
International callers may use toll number:  
+1-212-287-1616  
*Passcode (STELLAR) and leader name (Patrick Olmert) are required to enter call*

**Who:** Roger Blandford, Stanford Linear Accelerator Center and Kavli Institute of Particle Astrophysics and Cosmology  
NSF Astronomy Division Director Wayne Van Citters

**Where:** NSF Boardroom (Room 1235)  
National Science Foundation



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## What do I do when a reporter calls?

***Give yourself time*** and consider consulting with NSF on how best to respond. Say, **“Thanks very much for calling, but now is a really bad time. Tell me your deadline, I’m going to have to call you back.”**

Call me at **292-7730** and e-mail me at **[jchamot@nsf.gov](mailto:jchamot@nsf.gov)**

Never give an interview for which you aren’t prepared

**NEVER** speak “off-the-record.”





## The “Off the Record” Myth

There is no universally accepted definition of what “off the record” means. It means what the **reporter** thinks it means

Assume that anything and everything you say to a reporter is ON the record

You cannot “take back” something that you already have said in an interview

Never say anything you would not wish to see in *The Washington Post*

The Bottom line: Never speak “off-the-record.”



### **Remember:**

#### ***An interview is strictly business***

*While keeping it friendly, the interview is not a good venue for chit chat.*

*Conflict is best reserved for later. When in an interview, use logical, prepared statements – not emotional arguments, lectures, or other forms of debating or cajoling.*

*And finally, deadlines are tight and reporters need all the time they can get to prepare an accurate story. Be brief.*



## Some Common Concerns About Media Interaction . . .

- I'll be misquoted
- I'll be taken out of context
- I'll look stupid (“peer sneer”)
- I'll mistakenly contradict agency policies in print
- I'll be hounded by the press



## Some Common Concerns About Media Interaction . . .

- I'll be misquoted / You can reply by email, or request that reporter fact-checks your quotes (before you submit to the interview)
- I'll be taken out of context / see above
- I'll look stupid (“peer sneer”) / If subject matter is outside your field of expertise, re-direct the reporter to another source (if the fear is being viewed as “the best engineer on television,” recognize peer jealousy for what it is and move on – communicating complex processes in a way the public will understand is a skill, not acting)
- I'll mistakenly contradict agency policies in print / Please don't respond to a press query without calling OLPA first – we'll provide coaching, tips, even talking points if necessary (and we will be present at the interview if necessary, particularly television)
- I'll be hounded by the press / Press should go through our office first – we'll work with you to schedule the interview

**By preparing together,**  
we can address and minimize these concerns

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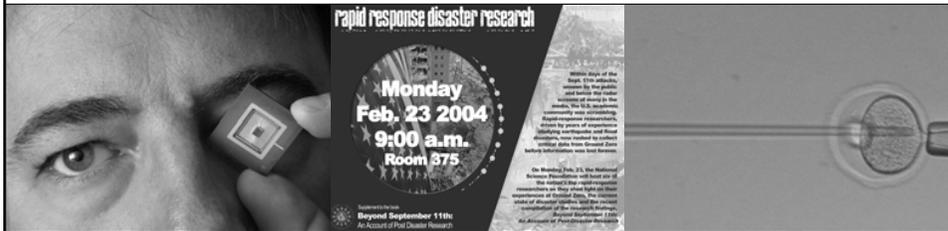
Who to contact:

Josh Chamot

NSF Media Officer for ENG/MPS

(703) 292-7730

[jchamot@nsf.gov](mailto:jchamot@nsf.gov)



Montgomery K. Fisher  
JD, PhD, CFE



Senior Counsel, Investigations  
Office of Inspector General



# Audits

- We used to audit SBIR awards, found many administrative problems & questioned costs
- SBIR awards are now fixed-price, so no more audits

# Investigations

- We used to investigate fraud in receipt and use of SBIR grant funds, had numerous successful civil and criminal cases
- We still find fraud in receipt & use of SBIR grant funds ... but less often than previously

# There are rules

## A Good Budget

- Document your budget estimates
  - Retain subcontractor/vendor quotations
  - Notify the program officer if circumstances change before you receive the award
- Post-Award
  - If any budget items were disapproved upon award, do not spend grant funds on those items
  - Subcontracts or equipment purchases above \$5,000 not in approved budget must be pre-approved

## Must be a Small Business

- Company must fit SBA's definition of Small Business Concern, such as:
  - U.S. ownership
  - Fewer than 500 employees (including subsidiaries, parent, other affiliates)
- For Phase II, must be the same small business that received Phase I

## No Duplicate Funding

- NSF will not make awards that duplicate or substantially overlap research funded by other agencies
- You must disclose whether your company has:
  - Received federal awards for related work, or
  - Submitted or intends to submit proposals for similar work to any other federal program

## C&PS

- **Current and Pending Support (C&PS)**
  - Intended to show that the PI and senior personnel have time available to perform the proposed research during the grant period
  - Must provide information about all research to which the PI and other senior personnel either have committed time or plan to commit time

(If you lie about duplicative proposals/awards, you'll probably have to lie about C&PS too)

## Work by the Grantee

- **Phase I:** two-thirds of the work must be performed by the grantee company
- **Phase II:** one-half of the work must be performed by the grantee company

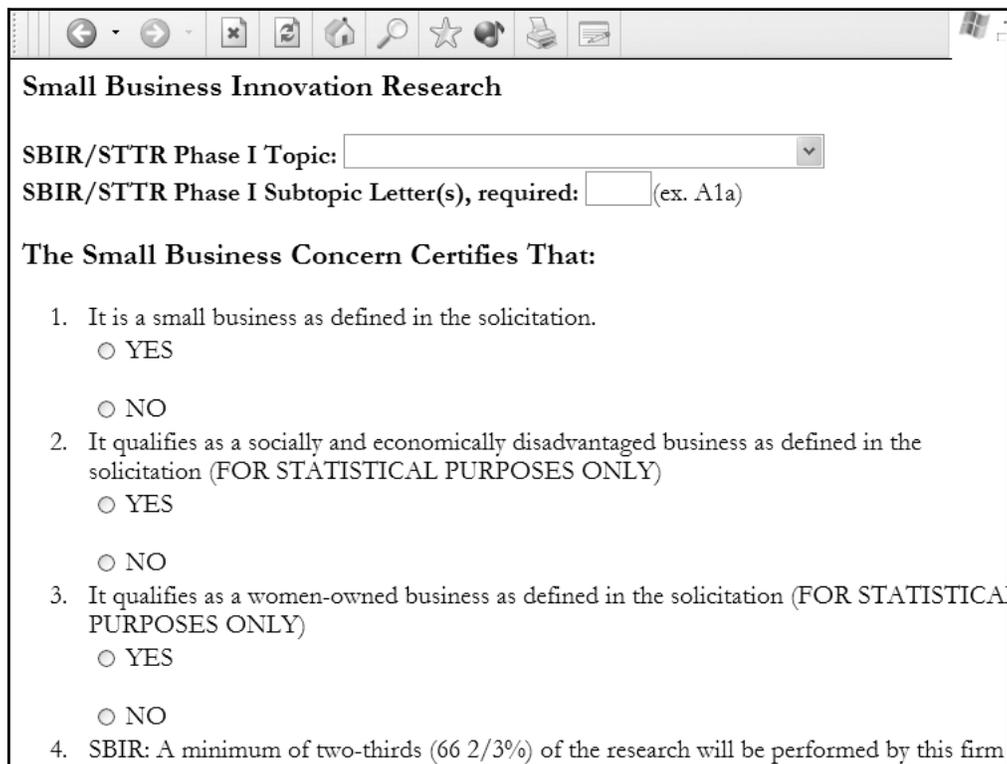
(Work performed in a university research lab is NOT performed by the grantee company)

## PI's Primary Employment

- The PI's primary employment must be with the small business at the time of award
  - The PI canNOT be employed full-time elsewhere
- Change of PI requires advance written request via FastLane and approval by NSF

**There are  
certifications**

# You certify when you apply



**Small Business Innovation Research**

SBIR/STTR Phase I Topic:

SBIR/STTR Phase I Subtopic Letter(s), required:  (ex. A1a)

**The Small Business Concern Certifies That:**

1. It is a small business as defined in the solicitation.  
 YES  
 NO
2. It qualifies as a socially and economically disadvantaged business as defined in the solicitation (FOR STATISTICAL PURPOSES ONLY)  
 YES  
 NO
3. It qualifies as a women-owned business as defined in the solicitation (FOR STATISTICAL PURPOSES ONLY)  
 YES  
 NO
4. SBIR: A minimum of two-thirds (66 2/3%) of the research will be performed by this firm

NO

3. It qualifies as a women-owned business as defined in the solicitation (FOR STATISTICAL PURPOSES ONLY)

YES

NO

4. SBIR: A minimum of two-thirds (66 2/3%) of the research will be performed by this firm in Phase I.  
STTR: It will perform at least 40 percent of the work and the collaborating research institution will perform at least 30 percent of the work as described in the proposal.

YES

NO

5. The primary employment of the Principal Investigator (PI) will be with this firm at the time of award and during the conduct of the research.

YES

NO

6. It will permit the government to disclose the title and technical abstract page, plus the name, address and telephone number of a corporate official, if the proposal does not result in an award, to parties that may be interested in contacting the small business for further information or possible investment.

YES

**Important Reading Notice**

The Certification Information that you enter below can be edited by your organization's Authorized Organization Representative(s) within the "Submit Proposal" module of the Research Administration application.

**Certification for Authorized Organizational Representative or Individual Applicant:**

By electronically signing the proposal, the individual applicant or the authorized official of the applicant institution is: (1) certifying that statements made herein are true and complete to the best of his/her knowledge; and (2) agreeing to accept the obligation to comply with NSF award terms and conditions if an award is made as a result of this application. Further, the applicant is hereby providing certifications regarding debarment and suspension, drug-free workplace, and lobbying activities (see below), as set forth in the *Grant Proposal Guide (GPG)*, NSF 02-2. Willful provision of false information in this application and its supporting documents or in reports required under an ensuing award is a criminal offense (U.S. Code, Title 18, Section 1001).

In addition, if the applicant institution employs more than fifty persons, the authorized official of the applicant institution is certifying that the institution has implemented a written and enforced conflict of interest policy that is consistent with the provisions of Grant Policy Manual Section 510; that to the best of his/her knowledge, all financial disclosures required by that conflict of interest policy have been made; and that all identified conflicts of interest will have been satisfactorily managed, reduced or eliminated prior to the institution's expenditure of any funds under the award, in accordance with the institution's conflict of interest policy. Conflicts which cannot be satisfactorily managed, reduced or eliminated must be disclosed to NSF.



**CERTIFICATE**

**CERTIFICATE OF CURRENT COST OR PRICING DATA**

This is to certify that, to the best of my knowledge and belief, the cost or pricing data (as defined in section 2.101 of the Federal Acquisition Regulations), submitted either actually or by specific identification in writing, to the Grant Officer or to the Grant Officer's representative in support of \_\_\_\_\_ \* are accurate, complete, and current as of \_\_\_\_\_.\*\*

This certification includes the cost or pricing data supporting any advance agreements and forward pricing rate agreements between the offeror and the Government that are part of the proposal.

**You certify  
to get your first  
payment**

**NSF SBIR AWARD**  
REQUEST FOR INITIAL PAYMENT

(This Certification and the ACH Vendor/Miscellaneous Payment Enrollment Form (SF 3881) must be returned to the NSF Division of Financial Management (DFM) at 4201 Wilson Blvd., Room 575, Arlington, VA 22230).

**NSF Grant No.** \_\_\_\_\_ **Initial Request \$** \_\_\_\_\_

The grantee, by signing and submitting this Request for Initial Payment for the above referenced NSF Grant, hereby certifies that: (1) the principal investigator and the small business firm have not accepted funding for the same or overlapping work except as stated in the underlying proposal, (2) all proposals describing the same or overlapping work have been withdrawn from other agencies, (3) the primary employment of the principal investigator is with this firm at the time of the award and will continue during the conduct of the research, and (4) the grantee is a small business as defined in the NSF Program Solicitation, "Small Business Innovation Research" under which the grantee submitted its proposal, and the principal investigator is an employee of the firm and is currently available to perform the proposed work. The undersigned understands that willfully making a false statement to or concealing a material fact from NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

This certification must be returned to NSF within 30 days of the date of the award. Failure to do so may result in the cancellation of the award.

**You certify  
when you report**

SBIR/STTR PHASE II FINAL REPORT COVER PAGE

NSF Award Number:	Project Title:
Date:	Period Covered by this Report:
Company Name:	PI Name:
Telephone Number:	Fax Number:
Company Address:	

Please check as appropriate:

- Plan to submit Phase II Proposal
- Report contains Proprietary Information

**Acknowledgment of NSF support and disclaimer:**

*"This material is based upon work supported by the National Science Foundation under Award Number: \_\_\_\_\_. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the views of the National Science Foundation."*

**Certifications:**

I certify that the Principal Investigator currently is  , is not  , "primarily employed" by the grantee organization as defined in the SBIR Solicitation.

I certify that the work under this project has  , has not  , been submitted for funding to another Federal agency and that it has  , has not  , been funded under any other Federal grant, contract, or subcontract.

I certify that to the best of my knowledge the work for which payment is hereby requested was performed in accordance with the award terms and conditions and that payment is due and has not been previously requested.

I certify that to the best of my knowledge (1) the statements herein (including scientific hypotheses and scientific opinions) are true and complete, and (2) the text and graphics in this report as well as any accompanying publications or other documents, unless otherwise indicated, are the original work of the signatories or individuals working under their supervision. I understand that the willful provision of false information or concealing a material fact in this report or any other communication submitted to NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

Authorized Company Officer

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.I. Signature: \_\_\_\_\_ Date: \_\_\_\_\_

NSF FORM 1272 (SBIR 10-07)

# Criminal Liability

- Lying to obtain an SBIR grant, or lying about what you did under a grant, violates several criminal laws, such as:
  - False Statements, 18 USC §1001
  - Theft of Federal Funds, 18 USC §641
  - Wire Fraud, 18 USC §1343
- You can go to prison, and have to pay full restitution plus fines

- Using SBIR grant funds for your personal use is criminal conversion (18 USC §641) and, if you don't report it to the IRS as personal income, it's tax evasion (18 USC §7201)
- Lying to OIG (e.g. Martha Stewart), or destroying evidence, when we're investigating is obstruction of justice (18 USC §1505)

# Civil Liability

## The False Claims Act

- **Treble damages** plus a fine of \$11,000 for each false claim
- “False Claims” include false information in the SBIR proposal, the Certification of Current Cost or Pricing Data, the Request for Initial Payment, and the interim and final reports

(For example, a false Phase I final report is a false claim for the final Phase I payment and for the full Phase II award)

# Administrative Action By NSF

## Termination of Current Awards

- **Suspension and Debarment**
  - Prohibited from receiving federal awards or working under someone else's awards
  - Suspension during investigation and prosecution, followed by 3-year debarment
  - Successful civil or criminal prosecution is invariably followed by debarment

## Special ARRA Requirements

- Reports
  - Lots of reports, lots of data: tell the truth!
- You must report to OIG “any credible evidence” of wrongdoing
- Whistleblower protections
  - Post notice for your employees of their rights
  - Do not retaliate
  - We investigate allegations of retaliation

3

True  
Stories

**“Excel  
Technology, Inc.”**

**“Clinical &  
Industrial  
Technology, Inc.”**

**“M.L. Energia,  
Inc.”**

**Help!**

If you have any suggestions about how the NSF SBIR Program or the NSF OIG might better prevent or detect fraud in the SBIR program, please call or email me

Monte Fisher  
NSF OIG  
703-292-4987  
mfisher@nsf.gov

[oig.nsf.gov](http://oig.nsf.gov)



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# Phase IB Supplement

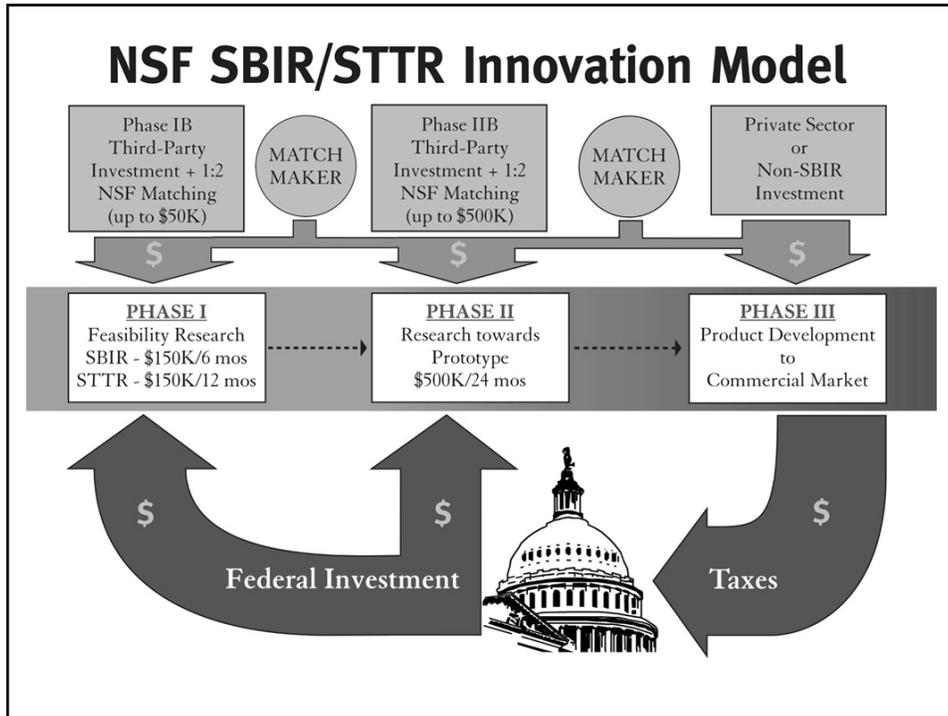
**Joseph Hennessey**

Senior Advisor

SBIR/STTR Program

Industrial Innovation & Partnerships





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## Phase IB Objectives

- Foster relationships with strategic partners and investors
- Advance Phase I research
- Help bridge the Phase I/Phase II gap
- Accelerate commercialization



## Phase IB Requirements

- An active SBIR or STTR Phase I award
- Funding from a third party investor
  - Cash
  - Liquid assets
  - Tangible financial instrument
  - In-kind, loans, self funding, etc not acceptable
  - Minimum of \$40,000 from investor up to \$100,000. NSF will match 50%



## Phase IB Requirements

- **The submission deadline is April 15<sup>th</sup>**
- Your award can not be in a no-cost extension when you apply.
- Although it extends your Phase I end date, the Phase IB supplement ***does not alter or extend your Phase II submission deadlines.***
- NSF money for additional research; investor money for research or acceleration of commercialization



## Phase IB Review Process

- Peer review by three external reviewers
- Preliminary notification 30 days after submitting proposal
- All financial documents must be submitted via FastLane as part of the Phase IB proposal
- 100% of Phase IB funds provided at award
- Submit an “Interim Report” at the end of your original Phase I award period
- Submit a “Final Report” at the termination of the Phase IB extension.



## Phase IB Supplement

- Phase I budget requirements apply
- Talk to your Phase I Program Director
- See the following website for details:  
<http://www.nsf.gov/eng/iip/sbir/ibinstruactions.jsp>





# Phase II Proposal Preparation

Cheryl Albus, SBIR/STTR  
Joseph Hennessey, SBIR/STTR  
Joye Mitchell, FastLane  
Bruce McKinnon, FastLane





## Phase II Statistics

- Your chances of award ~1 in 2.5!
- Your award (with supplements) could grow up to \$1 million!
- You can influence your chances by the quality of your proposal!
- BETTER THAN ANY LOTTERY Ticket!



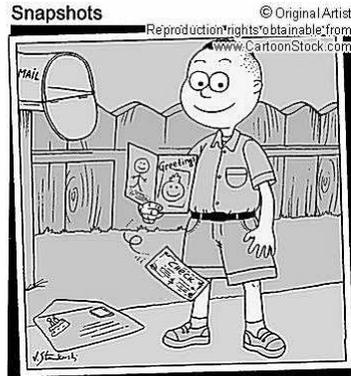
## Phase II Proposal Must be Complete

- What is a complete proposal
  - Cover Sheet
  - Project Summary
  - Project Description
  - References Cited
  - Biographical Sketches
  - Budget/Subaward Budgets
  - Current and Pending Support
  - Facilities, Equipment, and Other Resources
  - Supplementary Docs
    - Phase I Final Report
    - Payment Schedule & Milestone Chart
    - Commercialization Plan
    - Letters of Support
    - Company Commercialization History
    - Letters regarding human subjects and animal use
    - Cooperative Research Agreement (STTR only)



## Suggestions

1. Read the Phase II Step-by-Step Instructions
2. Use the Phase II Checklist
3. Call your Program Manager if you have questions



It's important to stay on NSF's check list!



## Phase II Proposal Reference Guide

- Cover Sheet Components (pages: 5-14)
- Project Summary (page: 14)
- Project Description (page: 15)
- References Cited (page 16)
- Biographical Sketches (page 16)
- Current and Pending Support (page 17)
- Facilities, Equipment and Other Resources (page 18)
- Budget (includes justification) (pages 19-30)
- Supplemental Docs (pages 31-24)
  - Phase I Final or Phase IB Interim
  - Payment Schedule
  - Project Milestone Chart
  - Commercialization Plan
  - Company Commercialization History
  - Letters of Support
  - Letters regarding human subjects
  - Cooperative Research Agreement (STTR only)
- Proposal Submission Procedures (pages 35-39)



## Log Into FastLane

- Last Name
- NSF ID
- Password

PI/Co-PI Log In

Last Name:

NSF ID:  
Privacy Act

Password:

[Forgot Password?](#)  
[Lookup NSF ID](#)



## Principal Investigator (PI)/Co-Principal Investigator (Co-PI) Management Screen

### Principal Investigator(PI)/Co-Principal Investigator(Co-PI) Management

What Do You Want To Work On?

- Proposal Functions
- Award And Reporting Functions
- Change PI Information



# Proposal Functions Screen

## Principal Investigator(PI)/Co-Principal Investigator(Co-PI) Management

### Proposal Functions

- Letters of Intent
- Proposal Preparation
- Proposal Status
- Revise Submitted Proposal Budget
- Proposal File Update



# Principal Investigator (PI) Information Screen

## Principal Investigator (PI) Information

**Notice:** In the January 2002 Grant Proposal Guide (GPG), NSF published revised proposal preparation guidelines. Review the latest Proposal Preparation Section of the Grant Proposal Guide (opens new window) and Proposal Descriptions Section of the Grant Proposal Guide (opens new window), for more information. PIs were instructed that they must address both most review criteria in the preparation of proposals submitted to NSF. The GPG now reflects that proposers must clearly address, in separate statements within the one-page Executive Summary, both of the NSF most review criteria on the Project Summary. The GPG also reiterates that broader impacts resulting from the proposed project must be addressed in the Project Description and described as an integral part of the narrative.

Examples illustrating activities likely to demonstrate broader impacts are available electronically on the NSF website at <http://www.nsf.gov/pubs/2005/nsf05-106/106examples.pdf> (opens new window).

These changes should be carefully considered by PIs when preparing proposals for submission to NSF. Effective October 1, 2002, proposals that do not address the two most review criteria in separate statements in the project summary will be returned without review.

Name	Terry Dimeo		
Organization	NSF 4102852000		
Department	Division of Information Systems		
Address	4201 Wilson Boulevard	Phone:	(703) 292-1000
	Arlington, VA 22230	Fax:	(703) 292-3000
		E-Mail:	tdimeo@nsf.gov
Country	US		
Gender	Do not wish to provide		
Citizenship	Do not wish to provide		
Ethnicity	Do not wish to provide		
Disability Status			
Race	White		
Serving or ever served on a Federally Funded Project as a PI or Co-PI -	No		



# Proposal Actions Screen

**Proposal Actions**

Temporary Proposals in Progress

Temporary Proposal # - Title of the Proposal

6963171 - STTR Phase I	▲
6963170 - SBIR Phase I	■
6963169 - EDL_4010_TEST_PROPOSAL	■
6963167 - SBIR Phase I SBIR Phase I	■
6963166 - SBIR Phase I 5th SBIR Proposal	▼

## Create New Proposal

# SBIR Phase I Selector

wtLew\_AlfomS41

## SBIR Phase I Selector

Instructions for beginning a new SBIR Phase II Proposal The box below includes all of your current SBIR Phase I Awards. Select from the list and click the " Use " button to start a SBIR Phase II proposal. All relative information will be passed on to your SBIR phase II proposal.

SBIR Phase I Awards (No current awards)

If no list appears above or if your Phase I award does not appear on the list, type the award number from your Phase I award in the space provided below. Remember that SBIR Phase II proposals must be based on a prior SBIR Phase I Award.

Phase I Award number

## Are you Changing PI for Phase II?



FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servlet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBIRONE-PI-9016781 Demo

### Forms for Temp. Proposal #9016781

SBIR Phase II:

#### Form Preparation

To prepare a form, click on the appropriate button below.

Form	Saved	Form	Saved
<input type="button" value="GO"/> Cover Sheet	02/06/09	<input type="button" value="GO"/> Project Summary	
<input type="button" value="GO"/> Table of Contents	N/A	<input type="button" value="GO"/> Project Description	
<input type="button" value="GO"/> References Cited		<input type="button" value="GO"/> Biographical Sketches	
<input type="button" value="GO"/> Budgets (Including Justification)		<input type="button" value="GO"/> Current and Pending Support	
<input type="button" value="GO"/> Facilities, Equipment, and Other Resources		<input type="button" value="GO"/> Supplementary Docs	
<b>Single Copy Documents</b>			
<input type="button" value="GO"/> PI/Co-PI Information	N/A	<input type="button" value="GO"/> Add/Delete Non Co-PI Senior Personnel	N/A
<input type="button" value="GO"/> Deviation Authorization(if applicable)		<input type="button" value="GO"/> Change PI	
<input type="button" value="GO"/> List of Suggested Reviewers (optional)	N/A	<input type="button" value="GO"/> Link Collaborative Proposals	
<input type="button" value="GO"/> Additional Single Copy Documents			

Frequently Asked Questions About FastLane Proposal Preparation

**NAVIGATION**

PROPOSALS  
PRINT  
FORMS  
BIO SKETCH  
BUDGET  
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SUMMARY  
SUPPORT  
SUPP. DOCS.  
PI INFO.  
LOGON

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# 1. Cover Sheet

### Cover Sheet Components Form

The NSF Cover Sheet within FastLane has been divided into 4 sections:

- Awardee/Performing/Research Organization
- Program Announcement / Solicitation Number Selection
- NSF Unit Consideration
- Remainder of Cover Sheet

To complete a section, click on the Go button, and click on OK to save the data.

Awardee/Performing/Research Organization Selection

Awardee Organization	Performing/Research Organization
NSF	NSF
Address: Arlington, VA 222302000	
US	
Inst. Code: 4102852000	4102852000
DUNS #: 074811805	

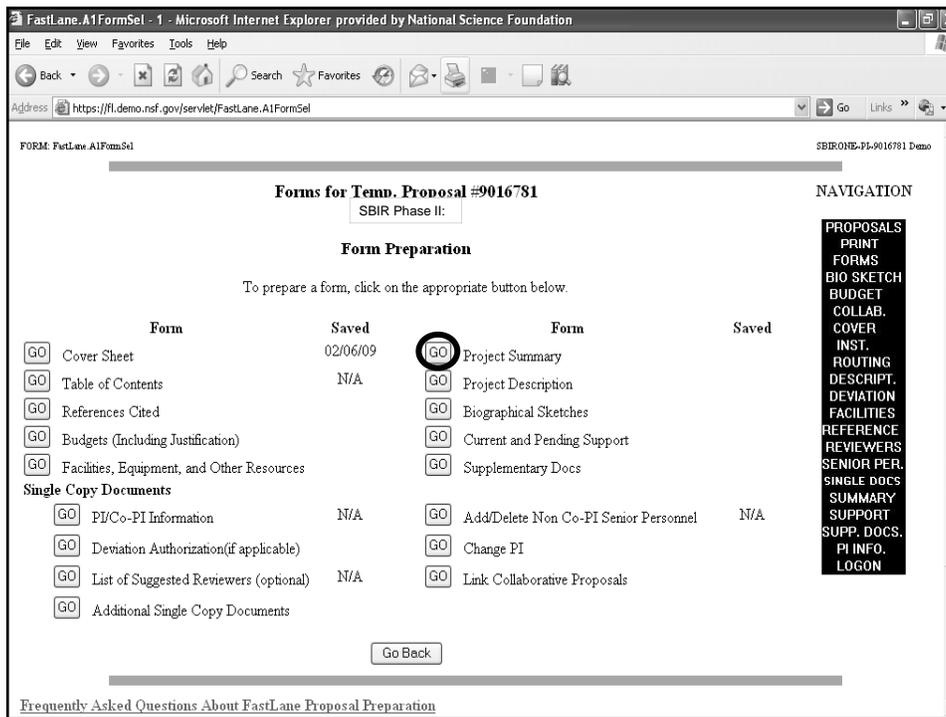
Program Announcement / Solicitation / Program Description No., or In response to Grant Proposal Guide (GPG)

No Program Announcement has been selected yet.  
\*You must select one or the GPG prior to filling out the rest of the Cover Sheet

NSF Unit Consideration

No NSF Units have been selected yet.  
\*You must select one prior to filling out the rest of the Cover Sheet

\*Remainder of the Cover Sheet

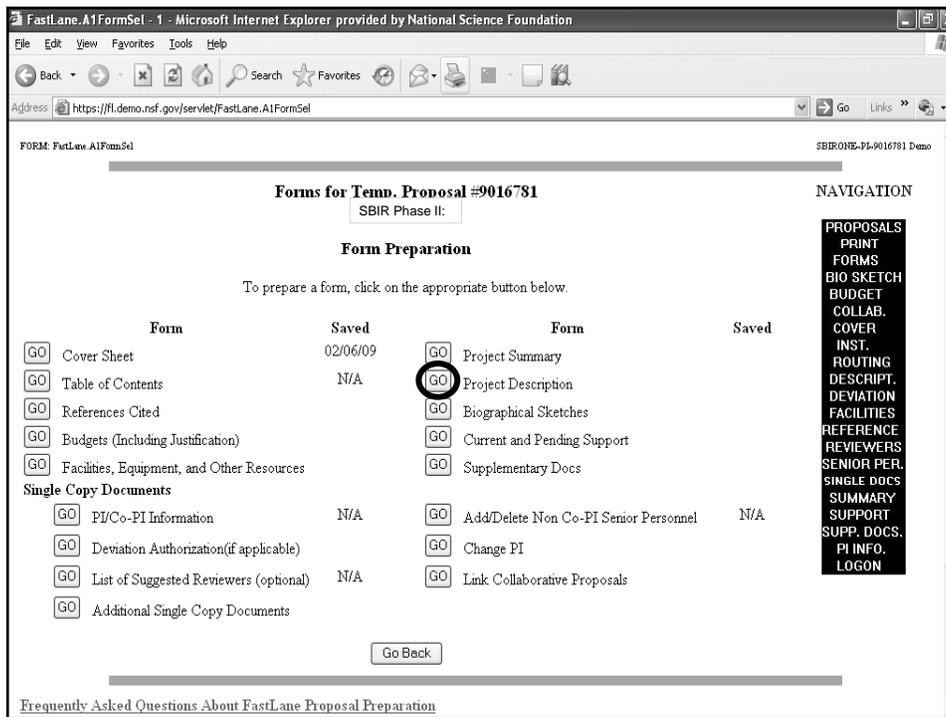


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## 2. Project Summary

- Three options to prepare the Project Summary
  - Use the Text Box and Cut and Paste (formatting is lost when using the text box)
  - Type directly into the box
  - Upload a file (highly recommended)
- Four parts
  - First Paragraph starts with This Small Business...
  - The boarder/commercial impact...
  - Topic/Subtopic
  - Key words



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## 3. Project Description

- Only option is to upload a file
- Cannot exceed 15 pages
- Must have the following 4 parts
  - Part 1. Results of the Phase I Project
  - Part 2. Phase II Technical Objectives
  - Part 3. Organizational Information
  - Part 4. Consultant and Subaward Activities

FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servelet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBRONE-PI-0016781 Demo

### Forms for Temp. Proposal #9016781

SBIR Phase II:

#### Form Preparation

To prepare a form, click on the appropriate button below.

Form	Saved	Form	Saved
<input type="button" value="GO"/> Cover Sheet	02/06/09	<input type="button" value="GO"/> Project Summary	
<input type="button" value="GO"/> Table of Contents	N/A	<input type="button" value="GO"/> Project Description	
<input type="button" value="GO"/> References Cited		<input type="button" value="GO"/> Biographical Sketches	
<input type="button" value="GO"/> Budgets (Including Justification)		<input type="button" value="GO"/> Current and Pending Support	
<input type="button" value="GO"/> Facilities, Equipment, and Other Resources		<input type="button" value="GO"/> Supplementary Docs	
<b>Single Copy Documents</b>			
<input type="button" value="GO"/> PI/Co-PI Information	N/A	<input type="button" value="GO"/> Add/Delete Non Co-PI Senior Personnel	N/A
<input type="button" value="GO"/> Deviation Authorization(if applicable)		<input type="button" value="GO"/> Change PI	
<input type="button" value="GO"/> List of Suggested Reviewers (optional)	N/A	<input type="button" value="GO"/> Link Collaborative Proposals	
<input type="button" value="GO"/> Additional Single Copy Documents			

[Frequently Asked Questions About FastLane Proposal Preparation](#)

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 PI INFO.  
 LOGON

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## 4. References Cited

- Most upload comprehensive listing.
- Three options Cut & Paste; Type directly into text box. or upload file.

References Cited

Enter text for the References Cited or click on "Transfer File" to upload a file

FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servlet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBRONE-PI-0016781 Demo

### Forms for Temp. Proposal #9016781

SBIR Phase II:

#### Form Preparation

To prepare a form, click on the appropriate button below.

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<input type="button" value="GO"/> List of Suggested Reviewers (optional)	N/A	<input type="button" value="GO"/> Link Collaborative Proposals	
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[Frequently Asked Questions About FastLane Proposal Preparation](#)

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## 5. Biographical Sketches

- Most provide key personnel and contractors
- Key bios to 2 pages per person

**IMPORTANT NOTE:** You can now upload all of your proposal biosketches as one file by clicking on the Principal Investigator's (PI) button and then clicking on "Transfer File." On that screen, click on the "Browser" button to select the file and then click on the "Upload File" button and follow the instructions.

Personnel assigned to proposal 9016867

<input type="button" value="GO"/> Terry Demo	PI	<input type="button" value="Nothing"/>
<input type="button" value="GO"/> Lums Lums	Senior Person	<input type="button" value="Nothing"/>

FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servelet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBRONE-PI-0016781 Demo

### Forms for Temp. Proposal #9016781

SBIR Phase II:

#### Form Preparation

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<input type="button" value="GO"/> Additional Single Copy Documents			

[Frequently Asked Questions About FastLane Proposal Preparation](#)

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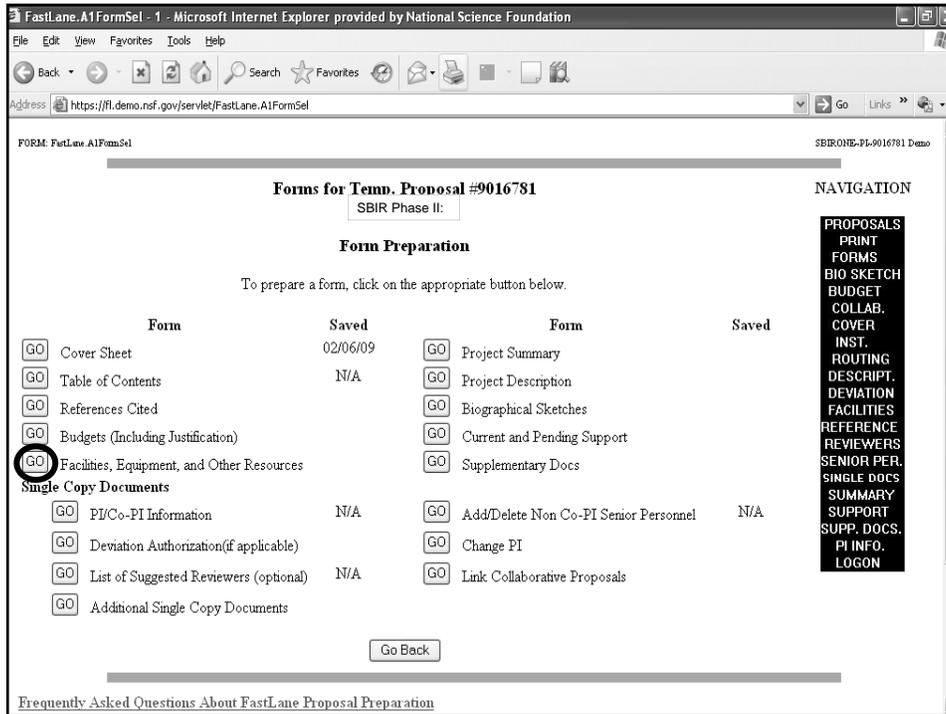
## 6. Current and Pending Support

- You must list All projects current and pending\* for key persons on the project

**Current and Pending Support**

Note: You can upload all Current and Pending support items of your proposal as one PDF file by selecting the PI's name and either editing an existing form or creating a new one.

<p><b>Existing Support Forms</b></p> <p style="text-align: center;">No forms have been created yet.</p>	<p><b>Current PI, Co-PIs, and Senior Personnel</b></p> <p><input checked="" type="radio"/> Terry Demo</p> <p><input type="radio"/> Lorna Lums</p> <p style="text-align: right;"><input type="button" value="New Form"/></p>
---	---



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## 7. Facilities, Equipment, and other Resources

- Describe the resources that your company has

FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servelet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBRONE-PI-0016781 Demo

**Forms for Temp. Proposal #9016781**  
SBIR Phase II:

**Form Preparation**

To prepare a form, click on the appropriate button below.

Form	Saved	Form	Saved
<input type="button" value="GO"/> Cover Sheet	02/06/09	<input type="button" value="GO"/> Project Summary	
<input type="button" value="GO"/> Table of Contents	N/A	<input type="button" value="GO"/> Project Description	
<input type="button" value="GO"/> References Cited		<input type="button" value="GO"/> Biographical Sketches	
<input type="button" value="GO"/> Budgets (Including Justification)		<input type="button" value="GO"/> Current and Pending Support	
<input type="button" value="GO"/> Facilities, Equipment, and Other Resources		<input type="button" value="GO"/> Supplementary Docs	
<b>Single Copy Documents</b>			
<input type="button" value="GO"/> PI/Co-PI Information	N/A	<input type="button" value="GO"/> Add/Delete Non Co-PI Senior Personnel	N/A
<input type="button" value="GO"/> Deviation Authorization (if applicable)		<input type="button" value="GO"/> Change PI	
<input type="button" value="GO"/> List of Suggested Reviewers (optional)	N/A	<input type="button" value="GO"/> Link Collaborative Proposals	
<input type="button" value="GO"/> Additional Single Copy Documents			

[Frequently Asked Questions About FastLane Proposal Preparation](#)

PROPOSALS  
 PRINT  
 FORMS  
 BIO SKETCH  
 BUDGET  
 COLLAB.  
 COVER  
 INST.  
 ROUTING  
 DESCRIPT.  
 DEVIATION  
 FACILITIES  
 REFERENCE  
 REVIEWERS  
 SENIOR PER.  
 SINGLE DOCS  
 SUMMARY  
 SUPPORT  
 SUPP. DOCS.  
 PI INFO.  
 LOGON

National Science Foundation  
WHERE DISCOVERIES BEGIN



## 8. Budget

- Greg Baxter will walk you through the budget
- A few key points
  - Separate budgets are required for subawards
  - Consultant letters are uploaded in the budget justification
  - All line items listed on the budget form **MUST** be addressed on the budget justification page

FastLane.A1FormSel - 1 - Microsoft Internet Explorer provided by National Science Foundation

Address: https://fl.demo.nsf.gov/servlet/FastLane.A1FormSel

FORM: FastLane.A1FormSel SBRONE-PI-0016781 Demo

### Forms for Temp. Proposal #9016781

SBIR Phase II:

#### Form Preparation

To prepare a form, click on the appropriate button below.

Form	Saved	Form	Saved
<input type="button" value="GO"/> Cover Sheet	02/06/09	<input type="button" value="GO"/> Project Summary	
<input type="button" value="GO"/> Table of Contents	N/A	<input type="button" value="GO"/> Project Description	
<input type="button" value="GO"/> References Cited		<input type="button" value="GO"/> Biographical Sketches	
<input type="button" value="GO"/> Budgets (Including Justification)		<input type="button" value="GO"/> Current and Pending Support	
<input type="button" value="GO"/> Facilities, Equipment, and Other Resources		<input checked="" type="button" value="GO"/> Supplementary Docs	
<b>Single Copy Documents</b>			
<input type="button" value="GO"/> PI/Co-PI Information	N/A	<input type="button" value="GO"/> Add/Delete Non Co-PI Senior Personnel	N/A
<input type="button" value="GO"/> Deviation Authorization(if applicable)		<input type="button" value="GO"/> Change PI	
<input type="button" value="GO"/> List of Suggested Reviewers (optional)	N/A	<input type="button" value="GO"/> Link Collaborative Proposals	
<input type="button" value="GO"/> Additional Single Copy Documents			

[Frequently Asked Questions About FastLane Proposal Preparation](#)

**PROPOSALS**  
 PRINT  
 FORMS  
 BIO SKETCH  
 BUDGET  
 COLLAB.  
 COVER  
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 DESCRIPT.  
 DEVIATION  
 FACILITIES  
 REFERENCE  
 REVIEWERS  
 SENIOR PER.  
 SINGLE DOCS  
 SUMMARY  
 SUPPORT  
 SUPP. DOCS.  
 PI INFO.  
 LOGON

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## Supplementary Docs

1. Phase I Final Report - FastLane does not automatically attach report to the Phase II
2. Payment Schedule - NSF standard is 25% initial payments; 3 interim payments of 20%; and a final payment of 15%
3. Project Milestone Chart - Must match the budget
4. Commercialization Plan - 15 pages (excluding letters of support)
5. Letters of Support
6. Company Commercialization History - Must be in the NSF format
7. Letters regarding human subjects/institutional review or IACUC - documents are in hand (note- these documents must be provided if recommended for award)
8. Cooperative Research Agreement (for STTR only) - upload new CRA; or letter stating a new CRA will be signed if recommended; or a letter stating the existing CRA will cover the Phase II project

National Science Foundation

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# Phase II Budget Guidance and Requirements

Greg Baxter

SBIR/STTR Program Director



**SUMMARY YEAR 1  
PROPOSAL BUDGET**

ORGANIZATION <b>abc inst</b>				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Terry Demo</b>				AWARD NO.	Proposed	Granted
					NSF Funded Person-months	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. <b>Terry Demo - PI</b>				4.00	0.00	0.00
2. <b>Frederick Scott - Engineer</b>				1.50	0.00	0.00
3. <b>Joseph Smith - Engineer</b>				1.50	0.00	0.00
4.						
5.						
6. ( 0 ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00
7. ( 3 ) TOTAL SENIOR PERSONNEL (1 - 6)				7.00	0.00	0.00
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. ( 0 ) POST DOCTORAL SCHOLARS				0.00	0.00	0.00
2. ( 2 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				2.00	0.00	0.00
3. ( 0 ) GRADUATE STUDENTS						
4. ( 0 ) UNDERGRADUATE STUDENTS						
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						
6. ( 0 ) OTHER						
TOTAL SALARIES AND WAGES (A + B)						73,000
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						0
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						73,000
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
<b>High Performance Server</b>					\$ 6,500	
<b>Miniature Spectrometer</b>					7,500	
TOTAL EQUIPMENT						14,000
E. TRAVEL						2,000
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)						
2. FOREIGN						0
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____						0
2. TRAVEL _____						0
3. SUBSISTENCE _____						0
4. OTHER _____						0
( 0 ) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						3,500
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						0
3. CONSULTANT SERVICES						5,710
4. COMPUTER SERVICES						0
5. SUBAWARDS						85,000
6. OTHER						50,000
TOTAL OTHER DIRECT COSTS						144,210
H. TOTAL DIRECT COSTS (A THROUGH G)						233,210
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)						
<b>G&amp;A (Rate: 30.7400, Base: 73000)</b>						
TOTAL INDIRECT COSTS (F&A)						22,440
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						255,650
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)						17,895
L. TOTAL COST AND FEE (J + K)						\$ 273,545 \$
PI/PD NAME <b>Terry Demo</b>				FOR NSF USE ONLY INDIRECT COST RATE VERIFICATION		
ORG. REP. NAME*						
				Date Checked	Date Of Rate Sheet	Initials - ORG

1\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

**SUMMARY YEAR 2  
PROPOSAL BUDGET**

ORGANIZATION <b>abc inst</b>				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Terry Demo</b>				AWARD NO.	Proposed	Granted
					NSF Funded Person-months	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. <b>Terry Demo - PI</b>				4.00	0.00	0.00
2. <b>Frederick Scott - Engineer</b>				3.00	0.00	0.00
3. <b>Joseph Smith - Engineer</b>				2.50	0.00	0.00
4.						
5.						
6. ( 0 ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00
7. ( 3 ) TOTAL SENIOR PERSONNEL (1 - 6)				9.50	0.00	0.00
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. ( 0 ) POST DOCTORAL SCHOLARS				0.00	0.00	0.00
2. ( 4 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				4.00	0.00	0.00
3. ( 0 ) GRADUATE STUDENTS						
4. ( 0 ) UNDERGRADUATE STUDENTS						
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						
6. ( 0 ) OTHER						
TOTAL SALARIES AND WAGES (A + B)						93,250
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						0
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						93,250
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
TOTAL EQUIPMENT						0
E. TRAVEL						2,000
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)						2,000
2. FOREIGN						0
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____						0
2. TRAVEL _____						0
3. SUBSISTENCE _____						0
4. OTHER _____						0
( 0 ) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						5,000
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						0
3. CONSULTANT SERVICES						5,710
4. COMPUTER SERVICES						0
5. SUBAWARDS						30,000
6. OTHER						10,000
TOTAL OTHER DIRECT COSTS						50,710
H. TOTAL DIRECT COSTS (A THROUGH G)						145,960
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) <b>G&amp;A (Rate: 30.7400, Base: 93250)</b>						
TOTAL INDIRECT COSTS (F&A)						28,665
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						174,625
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)						12,223
L. TOTAL COST AND FEE (J + K)						\$ 186,848 \$
PI/PD NAME <b>Terry Demo</b>				FOR NSF USE ONLY		
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION		
				Date Checked	Date Of Rate Sheet	Initials - ORG

2\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

**SUMMARY Cumulative  
PROPOSAL BUDGET**

ORGANIZATION <b>abc inst</b>				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Terry Demo</b>				AWARD NO.	Proposed	Granted
					NSF Funded Person-months	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. <b>Terry Demo - PI</b>				8.00	0.00	0.00
2. <b>Frederick Scott - Engineer</b>				4.50	0.00	0.00
3. <b>Joseph Smith - Engineer</b>				4.00	0.00	0.00
4.						
5.						
6. ( ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00
7. ( 3 ) TOTAL SENIOR PERSONNEL (1 - 6)				16.50	0.00	0.00
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. ( 0 ) POST DOCTORAL SCHOLARS				0.00	0.00	0.00
2. ( 6 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				6.00	0.00	0.00
3. ( 0 ) GRADUATE STUDENTS						0
4. ( 0 ) UNDERGRADUATE STUDENTS						0
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0
6. ( 0 ) OTHER						0
TOTAL SALARIES AND WAGES (A + B)						166,250
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						0
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						166,250
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
				\$	14,000	
TOTAL EQUIPMENT						14,000
E. TRAVEL						4,000
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)						
2. FOREIGN						0
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____						0
2. TRAVEL _____						0
3. SUBSISTENCE _____						0
4. OTHER _____						0
( 0 ) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						8,500
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						0
3. CONSULTANT SERVICES						11,420
4. COMPUTER SERVICES						0
5. SUBAWARDS						115,000
6. OTHER						60,000
TOTAL OTHER DIRECT COSTS						194,920
H. TOTAL DIRECT COSTS (A THROUGH G)						379,170
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)						
TOTAL INDIRECT COSTS (F&A)						51,105
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						430,275
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)						30,118
L. TOTAL COST AND FEE (J + K)						\$ 460,393 \$
PI/PD NAME <b>Terry Demo</b>				FOR NSF USE ONLY		
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION		
				Date Checked	Date Of Rate Sheet	Initials - ORG

\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

## Year 1 Budget Justification

### A. Senior Personnel

Dr. Terry Demo - PI will work 2 person months on the project at \$20,000 per month for a total of \$40,000 in year 1.

Frederick Scott - Mechanical Engineer will work 1.5 person months at \$7,500 per month for a total of \$15,000 in year 1.

Joseph Smith - Electrical Engineer will work 1.5 person months at \$7,500 per month for a total of \$15,000 in year 1.

### B. Other Personnel

2 Technicians will work 1 person month (each) for a total of \$3,000 in year 1.

### D. Equipment

A high performance server is needed to carry out complex systems simulations. Readily available commercial offerings of servers do not have the speed and capability to carry out the multiple calculations.

High Performance Server \$6,500  
Miniature Spectrometer \$7,500 Quotes  
from the vendors are available

### E. Travel

Attendance to the required NSF Phase II Grantees Conference \$2,000

### G. Other Direct Costs

#### 1. Materials and Supplies

Hg source \$750/unit 2 units = \$1500

Sensors \$250/unit 4 units = \$1000

Chemical samples \$200/unit 5 units = \$1000

#### 3. Consultant Services

The signed consultant agreement is contained in the proposal. Dr. Snow has agreed to work (X) days at the NSF maximum consultant rate of \$600 per day.

#### 5. Subawards

A subaward budget is to Johns Hopkins University for their work on the high performance computing elements is for \$85,000 for year (see attached subaward budget and justification)

#### 6. Other

Analytical testing will be provided by XYX Corporation. Each test will cost \$10,000 and will be performed 5 tests the first year for a total of \$50,000

### I. Indirect Costs

The indirect cost rate for this project is 30% for salaries and wages (30% \* 73,000).

### K. Fee

The fee is within the NSF maximum of 7% of the total of direct and indirect costs.  
\$17,895.

## Year 2 Budget Justification

### A. Senior Personnel

Dr. Terry Demo - PI will work 2 person months on the project at \$20,000 per month for a total of \$40,000 in year 2.

Federick Scott - Mechanical Engineer will work 3 person months at \$7,500 per month for a total of \$22,500 in year 2.

Joseph Smith - Electrical Engineer will work 2.5 person months at \$7,500 per month for a total of \$18,750 in year 2.

### B. Other Personnel

1 Technicians will work 1 person month for a total of \$12,000 in year 2.

### E. Travel

Attendance to the required NSF Phase II Grantees Conference \$2,000

### G. Other Direct Costs

#### 1. Materials and Supplies

Hg source \$750/unit 4 units = \$3,000

Sensors \$250/unit 4 units = \$1000

Chemical samples \$200/unit 5 units = \$1000

#### 3. Consultant Services

The signed consultant agreement is contained in the proposal. Dr. Snow has agreed to work (X) days at the NSF maximum consultant rate of \$600 per day in the second year.

#### 5. Subawards

A subaward budget is to Johns Hopkins University for their work on the high performance computing elements is for \$30,000 for year (see attached subaward budget and justification)

#### 6. Other

Analytical testing will be provided by XYX Corporation. One test will cost \$10,000.

### I. Indirect Costs

The indirect cost rate for this project is 30% for salaries and wages (30% \* 93,250).

### K. Fee

The fee is within the NSF maximum of 7% of the total of direct and indirect costs \$13,929.

**SUMMARY YEAR 1  
PROPOSAL BUDGET**

ORGANIZATION <b>Johns Hopkins University</b>				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Randolph Macon</b>				AWARD NO.	Proposed	Granted	
				A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)			
	CAL	ACAD	SUMR				
1. <b>Randolph Macon - Professor</b>	2.00	0.00	0.00	\$ 20,000	\$		
2. <b>Thomas Payne - Assoc. Professor</b>	4.00	0.00	0.00	18,000			
3.							
4.							
5.							
6. ( 0 ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. ( 2 ) TOTAL SENIOR PERSONNEL (1 - 6)	6.00	0.00	0.00	38,000			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. ( 0 ) POST DOCTORAL SCHOLARS	0.00	0.00	0.00	0			
2. ( 0 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. ( 2 ) GRADUATE STUDENTS				20,000			
4. ( 0 ) UNDERGRADUATE STUDENTS				0			
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. ( 0 ) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)					58,000		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					0		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					58,000		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
TOTAL EQUIPMENT					0		
E. TRAVEL					2,000		
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS	\$			0			
2. TRAVEL				0			
3. SUBSISTENCE				0			
4. OTHER				0			
( 0 ) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					15,000		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					0		
3. CONSULTANT SERVICES					0		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					0		
6. OTHER					10,000		
TOTAL OTHER DIRECT COSTS					25,000		
H. TOTAL DIRECT COSTS (A THROUGH G)					85,000		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) (Rate: , Base: )							
TOTAL INDIRECT COSTS (F&A)					0		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					85,000		
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)					0		
L. TOTAL COST AND FEE (J + K)					\$ 85,000	\$	
PI/PD NAME <b>Randolph Macon</b>				FOR NSF USE ONLY			
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION			
				Date Checked	Date Of Rate Sheet	Initials - ORG	

1\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

**SUMMARY YEAR 2  
PROPOSAL BUDGET**

ORGANIZATION <b>Johns Hopkins University</b>				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Randolph Macon</b>				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-months		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. <b>Randolph Macon - Professor</b>	0.50	0.00	0.00	\$	5,000	\$	
2. <b>Thomas Payne - Assoc Professor</b>	2.00	0.00	0.00		9,000		
3.							
4.							
5.							
6. ( 0 ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00		0		
7. ( 2 ) TOTAL SENIOR PERSONNEL (1 - 6)	2.50	0.00	0.00		14,000		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. ( 0 ) POST DOCTORAL SCHOLARS	0.00	0.00	0.00		0		
2. ( 0 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00		0		
3. ( 2 ) GRADUATE STUDENTS					10,000		
4. ( 0 ) UNDERGRADUATE STUDENTS					0		
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0		
6. ( 0 ) OTHER					0		
TOTAL SALARIES AND WAGES (A + B)					24,000		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					0		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					24,000		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
TOTAL EQUIPMENT					0		
E. TRAVEL					2,000		
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____					0		
2. TRAVEL _____					0		
3. SUBSISTENCE _____					0		
4. OTHER _____					0		
( 0 ) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					4,000		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					0		
3. CONSULTANT SERVICES					0		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					0		
6. OTHER					0		
TOTAL OTHER DIRECT COSTS					4,000		
H. TOTAL DIRECT COSTS (A THROUGH G)					30,000		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) (Rate: , Base: )							
TOTAL INDIRECT COSTS (F&A)					0		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					30,000		
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)					0		
L. TOTAL COST AND FEE (J + K)				\$	30,000	\$	
PI/PD NAME <b>Randolph Macon</b>				FOR NSF USE ONLY			
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION			
				Date Checked	Date Of Rate Sheet	Initials - ORG	

2\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

**SUMMARY Cumulative  
PROPOSAL BUDGET**

ORGANIZATION <b>Johns Hopkins University</b>				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR <b>Randolph Macon</b>				AWARD NO.			
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-months		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. <b>Randolph Macon - Professor</b>	2.50	0.00	0.00	\$	25,000	\$	
2. <b>Thomas Payne - Assoc Professor</b>	6.00	0.00	0.00		27,000		
3.							
4.							
5.							
6. ( ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00		0		
7. ( 2 ) TOTAL SENIOR PERSONNEL (1 - 6)	8.50	0.00	0.00		52,000		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. ( 0 ) POST DOCTORAL SCHOLARS	0.00	0.00	0.00		0		
2. ( 0 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00		0		
3. ( 4 ) GRADUATE STUDENTS					30,000		
4. ( 0 ) UNDERGRADUATE STUDENTS					0		
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0		
6. ( 0 ) OTHER					0		
TOTAL SALARIES AND WAGES (A + B)					82,000		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					0		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					82,000		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
TOTAL EQUIPMENT					0		
E. TRAVEL					4,000		
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____					0		
2. TRAVEL _____					0		
3. SUBSISTENCE _____					0		
4. OTHER _____					0		
( 0 ) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					19,000		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					0		
3. CONSULTANT SERVICES					0		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					0		
6. OTHER					10,000		
TOTAL OTHER DIRECT COSTS					29,000		
H. TOTAL DIRECT COSTS (A THROUGH G)					115,000		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
TOTAL INDIRECT COSTS (F&A)					0		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					115,000		
K. FEE (IF REQUESTED MAXIMUM = 7% OF J)					0		
L. TOTAL COST AND FEE (J + K)				\$	115,000	\$	
PI/PD NAME <b>Randolph Macon</b>				FOR NSF USE ONLY			
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION			
				Date Checked	Date Of Rate Sheet	Initials - ORG	

\*ELECTRONIC SIGNATURES REQUIRED ONLY FOR REVISED BUDGET

## **Sub-Awardee: Year 1 Budget Justification**

### **A. Senior Personnel**

Dr. Randolph Macon - Professor will work 2 person months on the project at \$10,000 per month for a total of \$20,000 in year 1.

Dr. Thomas Payne – Associate Professor will work 4 person months on the projects at \$4,500 per month for a total of \$18,000 in year 1.

### **B. Other Personnel**

2 graduate students will work 6 person months (each) for a total of \$20,000 in year 1.

### **E. Travel**

Attendance to the NSF Phase II Grantees Conference \$2,000 (either Dr. Macon or Dr. Payne will attend)

### **G. Other Direct Costs**

1. Materials and Supplies Sensors \$250/unit  
20 units = \$5,000 Laboratory glassware  
\$2,500 Chemical samples \$200/unit 20 units =  
\$4,000 Servo motors \$350/each 10 motors =  
\$3,500

6. Other Analytical testing will be provided by XYX Corporation. Each test will cost \$10,000 and will be performed 1 test the first year for a total of \$10,000

## **Sub-Awardee: Year 2 Budget Justification**

### **A. Senior Personnel**

Dr. Randolph Macon - Professor will work 0.5 person months on the project at for a total of \$5,000 in year 2.

Dr. Thomas Payne – Associate Professor will work 2 person months on the projects at \$4,500 per month for a total of \$9,000 in year 2.

### **B. Other Personnel**

2 graduate students will work 3 person months (each) for a total of \$10,000 in year 1.

### **E. Travel**

Attendance to the NSF Phase II Grantees Conference \$2,000 (either Dr. Macon or Dr. Payne will attend)

### **G. Other Direct Costs**

1. Materials and Supplies Chemical samples  
\$200/unit 20 units = \$4,000



# Financial and Administrative Reviews

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Carrie Davison, Cost Analyst

Willie Mae Powell, Cost Analyst

Division of Institution and Award Support  
Cost Analysis and Audit Resolution (CAAR)



## RECOMMENDED FOR FUNDING

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What happens next:

- Referred to Cost Analysis Audit Resolution website:  
<http://www.inside.nsf.gov/bfa/dias/caar/sbirrev.htm#caar>
  - NSF Prospective New Awardee Guide:
    - Documentation submitted to NSF within 10 calendar days
  - NOTE: Other NSF contractors may be utilized to perform a review of the submitted documentation.
- 

## CAAR Reviews

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- Financial Capability
  - Accounting and Timekeeping
  - Budget
-

## Financial Capability

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### **Organizations must provide two (2) recent accounting years of:**

- Financial Statements
  - Most recent audit (CPA Compiled)
  - Tax returns
- 

## Considerations for Determining Adequacy of Accounting Systems

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- Responses to “Financial Management Systems Questionnaire”
  - Sample Timesheet
  - Federal Audits and Accounting System Reviews, if available
-

## Accounting System - Basic Requirements

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- Detailed budget preparation with proposed cost based on actual historical cost data
  - Identification of expenditures as direct, indirect and unallowable
  - Identification of costs (budgeted costs and actual expense) by project/grant
  - Complete and accurate financial reports (balance sheet, income statement, and cash flow statement)
  - Maintenance of adequate source documentation (purchase orders, invoices, canceled checks, etc.)
- 

## Timekeeping System

---

- Name and signature of employee & supervisor
  - Total hours an employee worked during a given pay period
  - Specific activities during the pay period (i.e., projects, G&A, vacation, sick, leave without pay, etc.)
-

## Budgeted Costs

---

### **Funding Criteria:**

- Necessary for conduct of the project
  - Allowable, reasonable, allocable
  - Based on current cost and pricing information (invoices, purchase orders, catalog, quotations)
- 

## Allocability (FAR 31.201-4)

---

- Incurred specifically for the project (Direct)
  - Necessary to the overall operation of the business (Indirect)
-

## Indirect Costs

---

- Safe Rate: 50% Salaries and Wages
  - Ceiling: 150% Salaries and Wages
- 

## Indirect Costs budgeted at an effective rate greater than 50%

---

- Calculation for most recently completed Fiscal Year
  - Total costs per the IDC calculation must reconcile with the Statement of Profit & Loss
  - Adjustments:
    - IR&D treated as direct costs
    - Patent
    - Sales/Marketing & Business Development
    - Manufacturing & Production
    - IDC S&W > 35% total S&W less paid time off
    - Subawards are generally excluded from base
  - No Facilities Capital Cost of Money (FCCM)
-

## Other Budget Highlights

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- Salaries and Wages  
1 CAL = 173 hours
  - Items or Extended Amounts > \$5,000
  - Consultant Limitation (\$600/Day)
- 

## Summary

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- Financial Capability Review - Adequate financial resources to perform the award
  - Accounting System Review - Meets the basic requirements for a Federal award
  - Budget Review - Budgeted amount is fair and reasonable based on certified cost and pricing data
-

## Certificate of Current Cost or Pricing Data

---

- Certification that supporting documentation is based on accurate, complete, and current cost and pricing data
  - Requested by DGA after final determination of the amount to be awarded
- 

## Cost Analysis & Audit Resolution

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Telephone (703) 292-8244

Fax (703) 292-9141

E-mail [bfacaarsbir@nsf.gov](mailto:bfacaarsbir@nsf.gov)

[www.nsf.gov/bfa/dias/caar](http://www.nsf.gov/bfa/dias/caar)

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# SBIR/STTR Phase I and II Grant Process

Jamie French, Team Lead  
Division of Grants and Agreements







## NSF Division of Grants and Agreements (DGA)

What does DGA do, and why do I care?

- The Division of Grants and Agreements (DGA) supports the issuance of NSF assistance awards and other agreements by providing business, financial, and award administration assistance from pre-award through closeout.
- DGA turns your proposal into an AWARD!
- Remember, your award with NSF is a grant, not a contract.



## SAMPLE AWARD LETTER

Some very important information is contained in your award letter...



Award Date: November 31, 2009  
Award No. IIP-0900000  
Proposal No. IIP-0900000

Andrea Kline  
President  
Kline Industries LLC  
123 Sunshine Dr  
Happyville, MD 25816

Dear Dr. Kline;

The National Science Foundation hereby awards a grant of \$150,000 to Kline Industries LLC for support of the project described in the proposal referenced above as modified by revised budget dated August 18, 2009.

This project, under your direction, is entitled:

"SBIR Phase I: The Secret to Living a Long and Happy Life."

This award is effective January 1, 2010 and expires June 30, 2010.

This grant is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Program Solicitation, "Small Business Innovation Research Program Phase I Solicitation FY-2010, (NSF 09-541) and SBIR Phase I Grant General Conditions (11/05).

This is a fixed amount grant intended to support the proposed level of effort for six (6) months. The Phase I Final Report is due within fifteen (15) days following the end of the six (6) month performance period.

The SBIR Phase I Grant General Conditions applicable to this award are available at <http://www.nsf.gov/pubs/gc1/sbiri1105.pdf>

Request for initial payment which is 2/3 of the total award must be submitted to the NSF Division of Financial Management using the SBIR Award Request for Initial Payment Form available at <http://www.nsf.gov/eng/iip/sbir/forms.jsp>. This form should be e:mailed to [drobinso@nsf.gov](mailto:drobinso@nsf.gov) or faxed to Denise Robinson at 703-292-9005. To receive payment, SBIR grant recipients must register with the Central Contractor Registry (CCR) at <http://www.ccr.gov>. NSF will use the grantee address and electronic funds transfer information from CCR to register your official address and banking information for payments.

Your Phase II proposal must be submitted by July 30, 2010 or January 31, 2011. Extensions to your Phase I award will not affect these dates.

Reviews and if applicable, the Panel Summary may be found at:  
<https://www.fastlane.nsf.gov/jsp/homepage/proposals.jsp> You will need your FastLane password to access this website. If you do not have or cannot remember your password, please go to <https://www.fastlane.nsf.gov/jsp/homepage/proposals.jsp> for instructions on resetting or obtaining passwords.

The attached budget indicates the amounts, by categories, on which NSF has based its support.

The cognizant NSF program official for this grant is Greg Baxter (703) 292-7795. The cognizant NSF grants official contact is Stephanie Gorman (703) 292-4809.

Sincerely,

Jamie H. French  
Grants and Agreements Officer



## Frequently Asked Questions

I received an NSF SBIR/STTR award,  
but now I have frequently asked  
questions....





## Why didn't I receive my initial payment?

If you haven't received your initial payment, ask yourself these important questions:

- Is my current banking info in CCR?
- What is the effective date of my award?
- Have I waited a sufficient amount of time after the effective date for the payment to be issued and received (10 days)?



## Why didn't I receive my interim/final payment?

Ask yourself these important questions:

- Did I submit my report?
- Did my program officer approve that report?
- Have I waited a sufficient amount of time after my report was approved for the payment to be issued and received (10 days)?





## Payment issues

Payments are processed by NSF's Grantee Cash Management Section

- Phase I- Denise Robinson [drobinso@nsf.gov](mailto:drobinso@nsf.gov)
- Phase II- Dorothy Battle [dbattle@nsf.gov](mailto:dbattle@nsf.gov)
- NSF cannot update your banking information, you must update it in CCR.



## Can I begin work or spend funds before the award effective date?

- Yes, at you own risk...
- Allowable expenses within 90 days of effective date may be spent without pre-approval
- Allowable expenses more than 90 days prior to effective date require approval via FastLane





## How do I change my company's name with NSF?

Inform your program officer of the name change, then send DGA these items:

- The document effecting your name change, authenticated by a proper official in the state having jurisdiction.
- A list of all affected awards between the Awardee (you) and NSF.
- The opinion of your legal counsel that this was properly effected under applicable law.



## Company has been sold/merged, can I transfer my award?

If a third party's interest in the award arises out of the transfer of (1) all the Awardee's assets or (2) the entire portion of the assets involved in performing the award, examples include:

- Sale of these assets with a provision for assuming liabilities;
- Transfer of these assets incident to a merger or corporate consolidation; and
- Incorporation of a proprietorship or partnership, or formation of a partnership.





## Novation Agreement

A *Novation Agreement* is a legal instrument executed by (a) the Awardee (transferor), (b) the successor in interest (transferee), and (c) the Government by which, among other things, the transferor guarantees performance of the award, the transferee assumes all obligations under the award, and the Government recognizes the transfer of the award and related assets.



## When should I obtain IRB/IACUC approval?

All projects involving human subjects must either (1) have approval from the organization's Institutional Review Board (IRB) BEFORE issuance of an NSF award or, (2) must affirm that the IRB has declared the research exempt from IRB review, in accordance with the applicable subsection, as established in section 101(b) of the Common Rule.





## Resources

- SBIR/STTR Solicitations
- SBIR/STTR grant conditions
  - [www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=sbiri110](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=sbiri110)
  - [www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=sbirii110](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=sbirii110)
- Protection of Human Subjects
  - [www.nsf.gov/bfa/dias/policy/docs/45cfr690.pdf](http://www.nsf.gov/bfa/dias/policy/docs/45cfr690.pdf)
- Excluded Party List [www.epls.gov](http://www.epls.gov)



## Questions?

[jhfrench@nsf.gov](mailto:jhfrench@nsf.gov)  
703-292-8664

A decorative landscape image at the bottom of the slide, showing a snow-capped mountain on the left, a forest of evergreen trees in the middle, and a large, smooth sand dune on the right.

National Science Foundation

WHERE DISCOVERIES BEGIN



# Phase II Commercialization Planning

**Murali S. Nair**  
**SBIR/STTR Program Director**





## Topics

- **Introduction**
- **Commercialization at NSF SBIR**
- **Commercialization Plan**
- **NSF SBIR Outcomes**
- **Innovation Accelerator (IA)**



## Introduction



## Vision Statements

- **NSF Vision**  
Advancing Discovery, Innovation and Education beyond the frontiers of knowledge, and empowering future generations in science and engineering (*NSF Strategic Plan FY 2006-2011*)
- **ENG Vision**  
Be the global leader in advancing the frontiers of fundamental engineering research, stimulating innovation, and substantially strengthening engineering education
- **IIP Vision**  
To be the pre-eminent federal resource driving the expansion of our nation's innovation capacity by stimulating partnerships among industry, academe, investors, government and other stakeholders



## Innovation\*

The design, invention, development and/or implementation of new or altered products, services, processes, systems, organizational structures, or business models for the purpose of creating **new value** for customers and financial returns for the firm

*\*Innovation Measurement  
A Report to the Secretary of Commerce  
January 2008*



## R&D Statistics

- 2010 Industry R&D \$260B
- US Companies 2009 R&D:
  - Software/IT/Internet \$17B
  - Electronics/Computer Hardware \$12.5B
  - Bio/ Pharmaceuticals \$19.5B
  - Other Adv Tech/Manufacturing \$8B



## R&D Statistics

- 2010 Federal R&D \$114B
- Performers:
  - Federal \$28.3B
  - Industry \$27B
  - University \$36.3B
  - Federal Labs \$16B
  - Nonprofit \$6.4B



## R&D Statistics

- 2010 University R&D \$58.3B
- Source:
  - Federal \$36.3B
  - Industry \$2.9B
  - University \$11.6 B
  - Other Government \$3.3B
  - Non-profit \$4.2B



## SBIR: Societal Objectives

- To stimulate technological innovation
- To increase private-sector commercialization of innovations
- To use small business to meet federal research and development needs
- To foster and encourage participation by minority and disadvantaged persons in technological innovation



## SBIR Statistics

Firms Gone Public	597
Patents Issued	57,000
Mergers and Acquisitions	914



## Commercialization at NSF SBIR

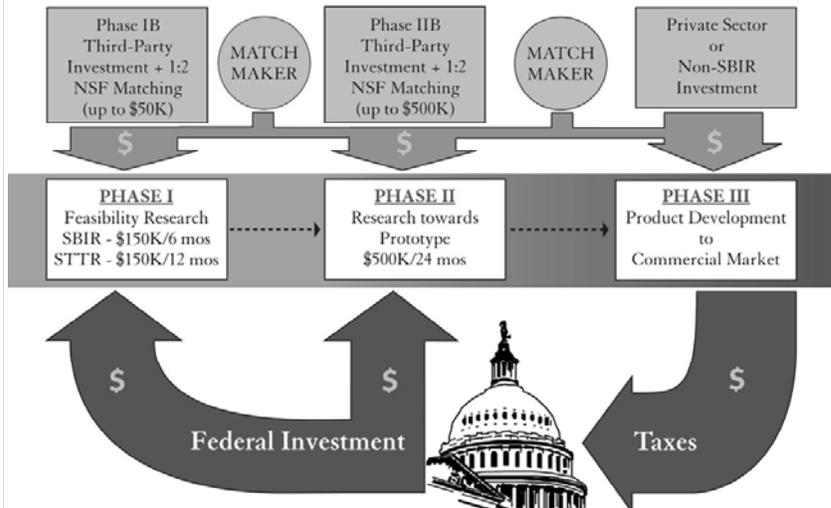


## Leverage through Collaboration

- Strengthen nation's collaborative advantage by developing unique networks and innovative partnerships
- Transform the U.S. innovation ecosystem to create entire new industries
- 10X leveraging of Federal \$\$



## NSF SBIR/STTR Innovation Model





## Issues & Considerations

- Ideas do NOT equal business opportunities
- Do your HOMEWORK, describe the *opportunity*
- Obtain market validation BEFORE you submit your proposal
- Consider proposal YOUR ADVOCATE at the table - proposal as “selling” document
- Why This? Why This Team? Why Now?



## Issues & Considerations

- An equity-free investment, NOT CONTRACT R&D
- NSF is not a customer – we do not buy your product, process, software or IP
- NSF wants to see you successfully **commercialize** the innovation
- Demonstrate strategic partnerships with research collaborators, customers, industry partners and equity investors
- Company needs investment dollars beyond SBIR



## NSF SBIR M&A

SBIR Firm	Acquired by
Cytomatrix	Singapore Card Life
<b>Energy and Environ. Res.</b>	<b>GE Energy Div.</b>
Uniax	<b>DuPont Displays</b>
Eltron	New Private Owner
<b>Active Impulse Systems</b>	<b>Phillips, NV</b>
Waveband Corp.	Sierra Nevada
Analytic Power Corp.	Dais Analytic
Composite Optics	ATK Space Systems
<b>Dharmacon</b>	<b>Fisher Scientific</b>
Inrad	Photonics Prod. Group
<b>T/J Technologies</b>	<b>A123 Systems</b>
<b>Quantum Magnetics</b>	<b>GE Security</b>
COI Ceramics	Alliant Tech Systems
Intellichem	Symyx
<b>Sensant Corp.</b>	<b>Siemens</b>
Dynamic Ideas	American Express
Blazie Engineering	Henter-Voyce



## NSF SBIR M&A

SBIR Firm	Acquired by
Visual Learning Sys.	Overwatch
Nomadics	ICX
Agentase	ICX
<b>Coherent Technologies</b>	<b>Lockheed Martin</b>
Knowledge Anal. Technol.	Pearson, LLC.
<b>Streamstage</b>	<b>Comcast Cable Communications</b>
Picarro (Laser Div. Only)	Newport Corp.
Lab Connections	Leap Technology
Sensys Instruments	Thermawave, Inc
Intralase	Advanced Medical Optics
<b>Sensors Unlimited</b>	<b>Goodrich</b>
ExploreLearning, Inc.	Voyager Expanded Learning
Flow Metrix, Inc.	Itron
Fourth Wave Imaging	Fugro, NV Holland
Radatech	Meggitt, Swiss
Mesosystems Tech., Inc.	ICX, Gov't prime consortium
Nomadics	ICX
Nova Phase	Crystal Genesis
<b>Angstrom Medical</b>	<b>Pioneer Surgical</b>



## Awards as Enablers

- Start a company
- Refine ideas to attract private money
- Build capacity
- Develop new technologies/lower cost of existing technologies
- Build on and add other sources of funding
- Grow an IP portfolio essential to commercial success
- Retain adequate control
- Pursue multiple paths to commercialization



## Funding Sources Prior to PII

Internal company investment	35%
Prior SBIR (excluding PI)	20%
Other private company (not VC)	15%
Private investor	14%
Prior non-SBIR federal R&D	13%
Other	9%
State or local government	5%
College or university	4%
VC	2%



## Matching/Co-investment for PII

- Another company 58%
- In-house (includes borrowed funds) 38%
- Angel/Other private investment source 21%
- Federal agency (non-SBIR) 4%
- VC 2%



## May Need Special Assistance In

- Identifying potential partners and investors
- Understanding negotiation processes with a variety of other businesses
- Valuating technologies for negotiating licensing, partnering, spin-offs, and sales of technology
- Protecting IP
- Changing or augmenting internal cultures to reflect the importance of commercialization as well as research
- Making arrangements for tests, trials, certifications, and demonstrations required for commercial success
- Enhancing abilities to present business opportunities to potential investors
- Generally shaping strategic choices and developing more detailed business plans



## Commercialization Mode

- As hardware 54%
- As process technology 32%
- As software 32%
- As new or improved service capability 24%
- As a research tool 21%
- As educational materials 12%
- As a biologic 3%
- Other 10%



## Commercialization Plan



## Plan Should Address

- Customer(s) for this innovation
- Company's profile/makeup
- Team's strengths/weaknesses
- Tasks and budget reasonable for the program being proposed?
- Competitive space



## Plan Should Address

- Ownership of IP
- IP landscape
- Number of customers; what are they willing to pay?
- \$\$\$ required to get the innovation to market
- Channels needed to access/get to market
- Plan to finance the commercialization effort



## Commercialization Plan Overview

- Not ***Can*** it be done but ***Should*** it be done
- \*\*\* ALWAYS CHECK WEBSITE FOR LATEST PHASE II COMMERCIALIZATION PLAN GUIDANCE
- Fifteen (15) pages to convey how you are going to make money
- Four (4) parts
  - Market Opportunity
  - Company/Team
  - Product/Technology and Competition
  - Finance and Revenue Model



## Market Opportunity

- Customer served by the described innovation and customer needs being addressed
- How does the customer currently meet those needs?
- What is the business model for this innovation?
- Is the model a service, product, license or “other” strategy?
- How will the innovation get to market? Where are you in the development cycle? Critical milestones required to get to market?
- Is there a strategic reason (societal benefit) for the nation to invest in this business?



## Company/Team

- Is this is a seed, early stage or expanding company?
- The entrepreneur's vision - corporate structure consistent with this vision?
- Financial resources? Other external funding sources – e.g. investors, strategic partners?
- Sources of revenue and revenue history over the past three years
- How well is the team poised to take this innovation to market? Have they previously taken similar products to market?
- Additional outside advisors, mentors, partners and stakeholders?



## Product/Technology & Competition

- Technology features that provide a compelling value proposition to the customer described?
- Market validation of the proposed value proposition?
- How much will people pay for the product/service enabled by the innovation? Validated this assumption?
- Demonstrate a realistic understanding of the cost to take this innovation to market?
- Who are the main competitors in the market space? How is this company going to compete: price, performance or other?
- Adequately addressed position in the IP landscape? Patent search undertaken? Management plan for handling IP issues as they arise?



## Revenue/Finance Plan

- Demonstrate adequate knowledge for the level of financial resources required to take this innovation to market?
- Have a phased plan to bring these funds to the table?
- Evidence of commitment for funding beyond the Phase II effort?
- Revenue streams for this innovation? When received? When does cash-flow breakeven occur?
- Pro forma reasonable given state of innovation?
- Adequately describes and validates assumptions behind the models?

\*\*\* Only require P&L statements 5 years out from START of the Award (3 years post Phase II)



## Company Commercialization History

- List all Phase II awards received from any and all agencies
- How much of your annual revenue is coming from SBIR/STTR awards (last 3 years)?
- How much SBIR/STTR funding have you received (in total)?
- What is the total revenue resulting from your Phase II projects (in total)?



## Commercialization Plan Review

- So, the commercialization plan counts for 50% right?
- Why is this a compelling “Investment” for the American taxpayer?
- The review process
- Who sits at the table?
- How do I protect my IP?
- What guidance does NSF give reviewers?



## Weak Commercialization Plans

- Lack of identified opportunity (science projects)
- Lack of team self awareness
- Unrealistic cost structure & finance plan
- Top-down market analysis
- Lack of awareness of the competitive landscape
- IP “issues”



## NSF SBIR Outcomes



## NSF SBIR Outcomes

- Gauge the commercialization effectiveness of the NSF SBIR program
- Identify opportunities to improve the program's service to the nation
- "High-touch" interview initiated in July '05
- Contacted at 3-, 5- and 8-years post Phase II award
- Over 600 phone interviews to date
- 88% contact rate



## NSF SBIR Outcomes

- One-fifth of PII projects reached licensing agreements with U.S. companies /investors
- Another fifth had ongoing negotiations with U.S. companies /investors on licensing agreements
- 14% of PII projects based on technology originally developed at a university
- 5% based on technology licensed from a university
- 20% resulted in products, processes or services that were in use and still active
- 25% projects continuing technology development in the post-Phase II period



## NSF SBIR Outcomes

- 263 contacts had “failed” projects - ~50% failed to get to market
- Causes for failure
  - “Technical” forces
    - Key people left
    - Didn’t work as envisaged
    - Technically more complex than planned
  - “Market” forces
    - Not cost competitive
    - Ran out of money
    - Shift in strategic direction
    - Market “disappeared”
  - Market failures almost 2:1 over technical failures



## NSF SBIR Outcomes

- 60% had strong ties (collaboration) with a market leader or customer
  - MARKET OPPORTUNITY
- 40% had a strong COLLABORATION with leading academics
  - BALANCED TEAM
- 57% claimed to have a strong patent position
  - DEFENDABLE IP
- Among the 120 eight-year companies contacted, the average sales growth rate was 27% per year and the personnel growth was 11% per year
  - REVENUE DOUBLING IN 3 YEARS



## NSF SBIR Outcomes

- High- and low-performing companies can be identified
- Commercialization history section is often misleading
- Excursion from existing company *technologies* leads to more failures
- Too small an excursion from existing *products*, i.e. product optimizations and expansions, lead to incremental “wins”
- Start-ups (under 10 employees at the time of the award) are slightly better than more established companies at commercializing NSF awards
- Efforts with strong collaborations and financial backing from industry leaders early are more successful



## Reasons for Discontinuing PII



## NSF SBIR Outcomes



## Innovation Accelerator (IA)



### Rationale

- Over \$120M in taxpayer money invested per year
- NSF has a powerful business network
- Program Directors under enormous time constraints
- Hence the IA public-private partnership



## IA Program Elements

- New Public-Private partnership to support Phase II grantees
- Build-out of Mentor/Entrepreneur + VC/Angel + Corporate networks
- Help with:
  - Enhancing management team
  - Business strategy
  - IP analysis, assessment, strategy
  - Investment
  - Connectivity - potential customer(s)/strategic partner(s)



## Eligibility

- Not all Grantees may want to participate
- All Grantees may not equally benefit
- Required to share:
  - Capital structure, revenues, customers, perceived valuation, and other sensitive information
- Required to provide quarterly reports

# National Science Foundation Speaker Bios

**Errol Arkilic** joined the National Science Foundation in October 2003. He is one of eight program directors in the SBIR Program at NSF where he focuses on Emerging Opportunities, Information and Security Technologies. Before joining NSF, he was President and CEO of StrataGent Life Sciences – a venture-backed startup in Silicon Valley. Prior to StrataGent, Errol was President of Phasyn, Inc. (a developer of packaging technologies for optical components) and Manager of Product Engineering at Redwood Microsystems, both in the Bay area. Errol holds a Ph.D. from the Micro Technology Laboratory at MIT.

**Greg Baxter** has been a Program Director for the SBIR/STTR Program at the National Science Foundation since September of 2008. Prior to joining NSF, he was founder and CSO of Hurel Corporation, a biotechnology company developing cell-based microfluidic biochips for drug discovery and development applications. Greg is an Adjunct Associate Professor with the Department of Biomedical Engineering at Cornell University. Prior to Hurel, Greg was a Senior Scientist at the Cornell Nanoscale Science and Technology Facility and the Biotechnology Liaison for the National Nanofabrication Users Network. Prior to Cornell, he held various research positions at Molecular Devices Corporation. He received his Ph.D. in molecular biology and biochemistry from the University of California at Santa Barbara and did his postdoctoral research at Syntex Research.

**Joshua Chamot** has been in the NSF Office of Legislative and Public Affairs since 2001 where he has served as both the Media Officer for Engineering and the Media Officer for Mathematics and Physical Sciences following a position as a general writer-editor and speechwriter. Prior to his term at NSF, Josh served as a Public Affairs Assistant at the Smithsonian National Museum of Natural History, a writing-editing consultant for the Temple University Institute for Survey Research and as a freelance science writer. His articles have appeared in a number of print and online publications including *Geotimes* and *Space.com*. He received his B.S. in Geology from the College of William and Mary in 1998 and his M.S. in Geology from the University of Tennessee at Knoxville in 2000.

**Carrie Davison** is a Financial Review and Cost Analyst, Division of Institution and Award Support (DIAS), within the Foundation's Office of Budget, Finance, and Award Management. Carrie has served in that position since March 1998 and participated in the transition of CAAR to DIAS from the former Division of Contract Support to DIAS. Over the course of her NSF career, Carrie has been responsible for the full range of CAAR functions. She has led numerous Award Monitoring and Business Assistance Program site visits; been responsible for indirect cost rate negotiations and pre-award reviews for both the Division of Grants and Agreements (DGA) and the Division of Acquisition and Cooperative Support; and has resolved multiple complex audits. Carrie has participated in Total Business System Reviews at NSF-cognizant Federally Funded Research Centers. She also serves as the primary contact for processing financial and administrative pre-award reviews for Phase II projects under NSF's Small Business Innovation Research and Small Business Technology Transfer programs. Prior to joining NSF, Carrie had 10 years of experience in contracts, grants, and non-profit accounting with other Federal agencies and a non-profit organization. Ms. Davison earned a B.A. in Business Administration from George Mason University.

**Monte Fisher** is Senior Counsel for Investigations within the Office of Inspector General at NSF. He earned a Bachelor of Arts in Chemistry and Computer Science from New College, a Ph.D. in Organic Chemistry from the University of Texas at Austin, and a J.D. from Columbia Law School. He clerked for a judge on the U.S. Court of Appeals for the Federal Circuit, worked for a private law firm for 3 years, and then joined the National Science Foundation's Office of Inspector General in 1990.

**Jamie French** joined the National Science Foundation in November 2007 as Lead Grants and Agreements Specialist for the Division of Grants and Agreements (DGA). Jamie is the DGA Team Lead for NSF's Engineering Directorate and Office of Polar Programs. Prior to NSF, Jamie worked as a Senior Policy Analyst for the U.S. Department of Justice, Office of Community Oriented Policing Services, where she managed a program providing grant assistance to state, local, and tribal law enforcement agencies. She began her career at DOJ with the Federal Bureau of Prisons, where she was an assistant on a national study of drug treatment programs in federal prisons. Jamie received a B.A. in Psychology and M.A. in Counseling from West Virginia University.

**Joseph Hennessey** serves as Senior Advisor in the Industrial Innovation and Partnerships Division within the Directorate for Engineering. He has also held placements as Acting Director for IIP, Program Director for SBIR, Program Director for the Management of Technological Innovation (MOTI) program, and as Acting Deputy Assistant Director for ENG. Joe came to NSF in June 1996 after retiring as Vice President and Director, Innovation at Armstrong World Industries. Armstrong is a \$3 billion global company recognized as a world leader in interior furnishings. During his 27 years at Armstrong, he led global innovation organizations, identified and leveraged technologies into commercially successful new products and designed multi-functional organizations consistent with global strategies. Joe received his Ph.D. in Organic Chemistry from the University of Maryland and is a member of the Industrial Research Institute (IRI), the Center for Innovation Management Studies (CIMS) at North Carolina State University, and a trustee of Millersville University.

**Joye Mitchell** currently serves as team lead for the FastLane/eBusiness team. She has been with FastLane and NSF for 5 years. The FastLane/eBusiness team supports both the external customer as well as internal NSF customers. The team's expertise is in the functionality of the FastLane proposal submission system and all applications associated with FastLane. The team also provides support for internal NSF systems that help maintain proposal and award data.

**Amanda Morris** is the Program Manager for the SBIR/STTR support contract with EDJ Associates, Inc. Amanda and her staff provide on-site support services to the SBIR/STTR Program in all administrative and technical areas, including screening proposals for compliance with the solicitations, creating panels and recruiting reviewers for Phase I and Phase II proposals, and assisting with travel/reimbursement, records management, IT/database support, and meeting planning. Amanda is the primary point of contact and organizer for the NSF SBIR/STTR Phase I and Phase II Grantees Conferences. She has been at NSF since 2006 and has a background in operations and federal grants management. Prior to joining NSF, she was the Director of Operations for Science at a conservation non-profit organization. She earned her M.A. in Asian Studies and International Relations from George Washington University and her B.A. in Political Science from North Carolina State University.

**Murali S. Nair** is the Electronics area cluster leader with the SBIR/STTR Program. Prior to joining NSF, he was the Founder and CEO of a wireless product company. In this capacity, he raised equity capital for worldwide operations in China, Brazil, India and the US. He designed, planned and implemented the product development cycle, and managed the marketing strategy, strategic alliances and business development processes. Before that, Murali was a Senior Systems Engineer at L-3 Communications where he provided strategic advice to the Executive VP for a complete re-plan of the Hughes contract for real-time, embedded ground control software for the \$350M PANAMSAT communications satellite. Prior to joining L-3 Communications, he was a Mission Planner at Motorola Iridium where he was involved in all aspects of satellite operations including orbit determination, generating guidance targets and orbital slot placement. Before joining Iridium, Murali was a faculty member at Embry-Riddle Aeronautical University, where he developed an entire Space Systems Design Lab from concept inception to fully operational mode and national prominence, and supervised five (5) space system

designs, three (3) of which were winners in the National AIAA/Loral Design Competition. He is a recipient of a number of awards that include the President's Innovation Award for Space Systems Design Courses. Murali is a registered professional engineer in the State of Florida.

**Kesh Narayanan** is the Division Director of Industrial Innovation and Partnerships (IIP) within the Directorate for Engineering (ENG) at NSF. Prior to his current assignment, Kesh served NSF in various capacities. He has played a major role in shaping the NSF Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs to accelerate technological innovation by aligning the programs with the investment market opportunities. As acting Division Director of Design, Manufacture and Industrial Innovation, he identified academic opportunities for manufacturing research to impact on the growing service sector economy as well as on the emerging nanotechnology. He was a member of the Partnerships for Innovation (PFI) working group that launched the NSF PFI program. Kesh joined NSF in 1994 from Certainteed, where he held the position of Chief Scientist for the building materials division. In addition to providing technological leadership for the company, he was successful in identifying research results from university laboratories that had significant impacts on the Certainteed product line. He was an Industrial Advisory Board member to a NSF I/UCRC center at the University of Connecticut. His longest tenure, spanning 20 years, was at the Norton Company. As the R&D Director of the Norton Bonded Abrasives Business, he led the worldwide introduction of new products, with a track record of identifying and developing new products accounting for 25% of total sales. His R&D group is credited with over 30 patents. Kesh received his Ph.D. in Materials Science and Engineering from Carnegie Mellon University in 1974 and B.Tech. in Metallurgical Engineering from Indian Institute of Technology, Bombay in 1967.

**Willie Mae Powell** is a Financial Review and Cost Analyst, Division of Institution and Award Support (DIAS), within the Foundation's Office of Budget, Finance, and Award Management (BFA). Since joining DIAS in July 2004, her responsibilities have included the conduct of pre-award reviews, negotiation of indirect cost rates, resolution of audit findings, and site visits under the Award Monitoring and Business Assistance Program. Mae began her career at NSF in March 2001. Immediately prior to assuming her current position, she served as a Management and Program Analyst and Administrative Manager in CAAR which was then a part of BFA's former Division of Acquisition and Cost Support. Before that, she was a Grant and Contract Technician within CAAR. Mae earned an Associate Degree in Applied Science from Central Texas College in 1996 and a B.A. in Business Administration from Averett University in December 2003. After graduating high school, Mae served four years as an Ammunition Technician within the United States Marine Corps.



# National Science Foundation

## Contact Information

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NATIONAL SCIENCE FOUNDATION MEETING SCHEDULE



Institution	Award #	PI First	PI Last	Title	NSF Program Director	Meeting Date	Meeting Time
4Wind Science and Engineering, LLC	0945253	Cattien	Nguyen	SBIR Phase I: High Throughput Nanoscale Patterning with an Array of Carbon Nanotube Cold Field Emission Guns for Electron Beam Lithography	Grace Wang	Wednesday, March 10	1:00 PM
A2 Technologies, LLC	0944892	Steven	Donahue	SBIR Phase I: Portable, Miniaturized Fourier Transform Infrared Spectrometer for Analysis of Inaccessible, Complex Surfaces	Cheryl Albus	Wednesday, March 10	1:00 PM
ACTA LLC	0944681	Edward	Clancy	SBIR Phase I: Improving Energy Efficiency by Using Nanofluids in Vapor Compression Systems	Grace Wang	Monday, March 8	4:15 PM
AcuDisplay, Inc.	0945972	Farshid	Arman	SBIR Phase I: High-Definition Pico-projector Display Engine Based on Lasers and Scanning MEMS Mirror	Juan Figueroa	Monday, March 8	1:15 PM
Adaptive Communications Research Inc.	0946027	Garret	Okamoto	SBIR Phase I: Reconfigurable Sparse Array Smart Antenna System via Multi-Robot Control	Murali Nair	Monday, March 8	2:30 PM
Adherent Technologies, Inc.	0945781	Jan	Gosau	SBIR Phase I: Catalytic Suppressor System for Reducing Diesel Emissions	Anthony Walters	Wednesday, March 10	1:15 PM
Advanced Diamond Technologies	0945935	John	Carlisle	SBIR Phase I: Low-cost Long-life Diamond Electrodes for Wastewater Treatment using Advanced Electrochemical Oxidation	Ben Schrag	Wednesday, March 10	9:45 AM
Advanced Diamond Technologies	0930676	John	Carlisle	STTR Phase I: Piezoelectric/diamond RF MEMS filters for mobile wireless applications	Ben Schrag	Wednesday, March 10	10:00 AM
Advanced Materials & Devices, Inc.	0930398	Barkan	Kavcoglu	STTR Phase I: Compressible Magnetorheological Fluids	Cheryl Albus	Wednesday, March 10	8:15 AM
Advanced Photonic Crystals, LLC	0945282	Henry	Giesber	SBIR Phase I: Hydrothermal Growth of Potassium Beryllium Fluoroborate (KBBF) for deep UV Nonlinear Optical Applications.	Ben Schrag	Wednesday, March 10	8:15 AM
Advanced Photonic Crystals, LLC	0930035	Henry	Giesber	STTR Phase I: Ammonothermal Growth of Doped Aluminum Gallium Nitride Single Crystals for Energy Efficient Solid State Lighting and Tunable LED's	Josephine Yuen	Wednesday, March 10	8:30 AM
Advanced Thermal Technologies	0930393	James	Connell	STTR Phase I: High Thermal Conductivity Carbon Fibers From Nanotextured Mesophase Pitch Precursors	Cheryl Albus	Wednesday, March 10	1:15 PM
Advantageous Systems LLC	0946115	Adam	Stein	SBIR Phase I: Treatment of Perchlorate Contaminated Water Using Surface Engineered Super Paramagnetic Iron Oxide Nanoparticles	Anthony Walters	Monday, March 8	2:45 PM
Advantageous Systems LLC	0930768	Adam	Stein	STTR Phase I: Desalination Using Functionalized Magnetic Nanoparticles	Cheryl Albus	Monday, March 8	4:30 PM
Aerodyne Research Inc	0945019	Andrew	Freedman	SBIR Phase I: Real Time Anesthesia Monitor	Josephine Yuen	Wednesday, March 10	9:00 AM
Agile Sciences Inc.	0930480	Stephen	McCall	STTR Phase I: Increasing the Efficiency of Membrane Filtration for Drinking Water Purification through the Incorporation of Novel Anti-Biofilm Small Molecules	Ruth Shuman	Monday, March 8	1:00 PM
Agiltron Incorporated	0930619	Kuiyang	Jiang	STTR Phase I: Carbon Nanotube Dry Adhesives	Cheryl Albus	Monday, March 8	4:45 PM
ALD Nanosolutions, LLC	0930734	John	Ferguson	STTR Phase I: Functionalized Nanocoatings for Filler Adhesion to Rubber Using Atomic Layer Deposition	Grace Wang	Monday, March 8	4:45 PM
Allotropica Technologies	0930099	Yongchao	Si	STTR Phase I: Graphene-Platinum Composite for Hydrogen Fuel Cells	Josephine Yuen	Monday, March 8	1:45 PM
Alpha Universe LLC	0945976	Alexey	Zdanovsky	SBIR Phase I: Phage detectors for bacterial pathogens	Gregory Baxter	Wednesday, March 10	9:30 AM
Altrum Technologies, Inc	0944159	Jean	Xie	SBIR Phase I: Seamlessly Integrated Methodology for Quick and Accurate Diagnosis of Digestive Diseases from Endoscopic Video	Errol Arkilic	Monday, March 8	1:45 PM

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AMEROM LLC	0930554	Ruxandra	Vidu	STTR Phase I: Fabrication of Low-Cost and High-Efficiency Thermoelectric Materials	Josephine Yuen	Monday, March 8	1:00 PM
Amethyst Research Incorporated	0944900	Brenda	VanMil	SBIR Phase I: Advanced Infrared Imagers Constructed of Lead-Salts	Juan Figueroa	Monday, March 8	2:30 PM
AMPL Optimization LLC	0945093	Robert	Fourer	SBIR Phase I: Unified and Intuitive Modeling Software for Non-Traditional Optimization	Errol Arkilic	Monday, March 8	2:45 PM
Anasys Instruments Corp.	0944400	Craig	Prater	SBIR Phase I: NanoIR: Infrared Chemical Spectroscopy at the sub-20 nm Scale	Ben Schrag	Wednesday, March 10	9:00 AM
Angstrom Materials, LLC	0930342	Aruna	Zhamu	STTR Phase I: Large-Scale Production of Pristine Nano Graphene	Grace Wang	Wednesday, March 10	11:15 AM
Anthony J. Macula	0944491	Anthony	Macula	SBIR Phase I: Covert Combinatorial DNA Taggants Signatures for Authentication, Tracking and Trace-Back	Gregory Baxter	Wednesday, March 10	1:00 PM
Applied Nanofemto Technologies	0930486	Jarrod	Vaillancourt	STTR Phase I: Developing Coupled Quantum Dot Multi-Functional Materials for Optoelectronics Integrated Circuits (OEIC)	Ben Schrag	Wednesday, March 10	1:15 PM
Applied Sciences, Inc.	0930573	David	Burton	STTR Phase I: Nanofluids for Improved Thermal Management	Cheryl Albus	Wednesday, March 10	1:30 PM
AppliFlex LLC	0930594	Hee	Park	STTR Phase I: Cost-effective fabrication and patterning of transparent metal oxide nanostructures by solution-based laser processing technologies	Cheryl Albus	Wednesday, March 10	11:00 AM
Aqwest LLC	0944663	John	Vertrovec	SBIR Phase I: Active Heat Sink for Hybrid Electric Vehicles	Anthony Walters	Wednesday, March 10	10:30 AM
Arbor Photonics	0945648	Thomas	Sosnowski	SBIR Phase I: High Power Pulsed Fiber Laser for EUV Lithography	Cheryl Albus	Wednesday, March 10	8:30 AM
Arcademics, Inc	0945528	Jerry	Chaffin	SBIR Phase I: ENGAGE: An Online MultiPlayer Game for Math Proficiency	Ian Bennett	Monday, March 8	4:30 PM
ArchieMD, Inc	0944876	Robert	Levine	SBIR Phase I: Augmented Reality Platform for Nursing Education	Ian Bennett	Wednesday, March 10	8:15 AM
Arctic, Inc.	0945035	Gina	Stewart	SBIR Phase I: Non-Polluting Method of Weed Control	Anthony Walters	Wednesday, March 10	1:30 PM
Aries Design Automation	0945974	Miroslav	Velev	SBIR Phase I: Automatic Formal Verification of Chip-Multi-Threaded Multicore Processors	Murali Nair	Wednesday, March 10	2:00 PM
ARZEDA Corp.	0946132	Daniela	Grabs	SBIR Phase I: Computational Enzyme Design for the Production of Butadiene	Ruth Shuman	Wednesday, March 10	8:45 AM
Aspen Aerogels LLC	0944961	Redouane	Begag	SBIR Phase I: Nanoporous Aerogels for the Absorption of Hydrocarbons in Contaminated Water	Ruth Shuman	Monday, March 8	1:30 PM
Aspen Sciences, Inc (Banyan Environmental, Inc.)	0930303	Love	Sarin	STTR Phase I: Nanoselenium for Simultaneous Detection and Capture of Mercury Vapor in Fluorescent Lighting Technology	Gregory Baxter	Wednesday, March 10	11:30 AM
Atkins & Pearce	0945311	Jeramie	Lawson	SBIR Phase I: Engineered Biodegradable Pods used to Create an Optimal Growing Environment for Seedlings	Anthony Walters	Wednesday, March 10	1:45 PM
Auctionomics	0946124	Paul	Milgrom	SBIR Phase I: Incorporating Bidder Budgets in Multi-Item Auctions	Errol Arkilic	Wednesday, March 10	9:45 AM
Avencia Incorporated	0945742	Robert	Cheetham	SBIR Phase I: GPU-based Raster Processing Algorithms	Errol Arkilic	Monday, March 8	4:15 PM
Baker-Calling	0930630	Robert	Littrell	STTR Phase I: High Performance Piezoelectric MEMS Microphones	Cheryl Albus	Monday, March 8	1:00 PM
Barrett Technology Inc	0945429	William	Townsend	SBIR Phase I: Agile Humanoid Healthcare Robot with Puck-Based Power Regeneration	Murali Nair	Monday, March 8	1:30 PM
Beam Power Technology, Inc.	0944685	Thomas	Bemis	SBIR Phase I: High-efficiency, high-power, lightweight elliptic-beam traveling-wave-tube amplifier for satellite communications	Murali Nair	Wednesday, March 10	10:30 AM
Bijhem Scientific, Inc	0930708	Bijo	Mathew	STTR Phase I: Bio-templated nanomaterials for environmental remediation applications.	Gregory Baxter	Wednesday, March 10	10:30 AM

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Bio Architecture Lab, Inc	0946147	Yasuo	Yoshikuni	SBIR Phase I: Bioethanol from Seaweed	Ruth Shuman	Wednesday, March 10	9:00 AM
BioCee, Inc.	0945970	Luca	Zullo	SBIR Phase I: Biocatalytic Coatings for the Desulfurization of Petroleum Products	Anthony Walters	Monday, March 8	3:30 PM
Biodetection Instruments LLC	0945184	Lisa	Bielke	SBIR Phase I: Detection and Determination of Viability of Cryptosporidium Oocysts by Capillary Column Immunosensor	Anthony Walters	Monday, March 8	1:30 PM
Biomerix Corporation	0944877	Balakrishna	Haridas	SBIR Phase I: Bioresorbable Polyurethane Scaffold Materials for Regenerative Applications in Advanced Wound Healing	Gregory Baxter	Wednesday, March 10	11:15 AM
Bioproduction Group, Inc.	0945777	David	Zhang	SBIR Phase I: Enterprise Decision making using Activity Interaction technology	Cheryl Albus	Monday, March 8	2:15 PM
Bioremediation Consulting Inc	0945557	Margaret	Findlay	SBIR Phase I: Development and Characterization of a Bioaugmentation Culture to Remediate Chlorinated Ethenes in Low pH Ground Water	Anthony Walters	Wednesday, March 10	9:45 AM
BioTools, Inc.	0945484	Rina	Dukor	SBIR Phase I: Vibrational CD Microscopy for Characterizing Supramolecular Bio-Chirality	Gregory Baxter	Wednesday, March 10	1:15 PM
Blue Shift Software Laboratory Inc	0945936	Franklin	Harper	SBIR Phase I: Blue Shift Communities - Improving Online Technical Support	Errol Arkilic	Monday, March 8	2:30 PM
Bluewater Technology	0945905	Matthew	Green	SBIR Phase I: Commutational Ramp Load Disk Drive Actuator	Murali Nair	Wednesday, March 10	10:45 AM
Bodega Algae LLC	0945345	Samuel	Hill	SBIR Phase I: Light Delivery Enhancement of Photobioreactors	Anthony Walters	Wednesday, March 10	11:30 AM
Boston Applied Technologies, Incorporated	0945475	Xiaomei	Guo	SBIR Phase I: Smart Thermal Barrier Coating for Gas Turbine Surface Temperature Monitoring	Ben Schrag	Monday, March 8	4:00 PM
Boulder Environmental Sciences and Technology, LLC	0944622	Marian	Klein	SBIR Phase I: The Marine Profiling Radiometer	Juan Figueroa	Monday, March 8	3:45 PM
Bridger Photonics, INC	0945805	Brant	Kaylor	SBIR Phase I: High Resolution, Low Cost, Compact 3D Imaging System	Juan Figueroa	Monday, March 8	1:00 PM
Caisson Laboratories, Inc.	0944919	Dominique	Roche	SBIR Phase I: Increasing the Yield of High Quality Starch from Grain	Ruth Shuman	Wednesday, March 10	11:15 AM
CapSmart	0945723	Peter	Shannon	SBIR Phase I: Capital Structuring Decision Support	Errol Arkilic	Wednesday, March 10	8:00 AM
Carmot Therapeutics, Inc.	0944429	Daniel	Erlanson	SBIR Phase I: A new drug discovery method to transform peptides to small molecules: proof of principle with p53-hdm2	Gregory Baxter	Monday, March 8	2:30 PM
Carnegie Speech Company	0945580	Garrett	Pelton	SBIR Phase I: Clarify - Tutoring Listening Comprehension	Ian Bennett	Wednesday, March 10	10:30 AM
CEENBoT, Inc	0945280	Dennis	Deyen	SBIR Phase I: Commercialization of the CEENBoT Educational Platform for K-16	Ian Bennett	Wednesday, March 10	9:45 AM
Ceralink Inc.	0945692	Holly	Shulman	SBIR Phase I: Ultra High Temperature Microwave Processing of Ceramics	Ben Schrag	Wednesday, March 10	1:00 PM
Chemicro Engineering	0945263	Aleksander	Franz	SBIR Phase I: Catalyst Development MicroReactor	Ruth Shuman	Wednesday, March 10	10:45 AM
Chiaro Technologies LLC	0946060	Benjamin	Braker	SBIR Phase I: Ultra-high-speed 3-D imaging	Juan Figueroa	Monday, March 8	1:45 PM
CoBlitz LLC	0945610	Patrick	Richardson	SBIR Phase I: CoBlitz: Enabling ISPs to Leverage Network Ownership	Errol Arkilic	Wednesday, March 10	9:30 AM
ColdQuanta, Inc.	0945042	Jeremy	Hughes	SBIR Phase I: Atom Chips for Cold & Ultracold Matter Applications	Cheryl Albus	Wednesday, March 10	9:30 AM
Cool Clean Technologies Inc.	0944494	Jon	Turner	SBIR Phase I: Environmentally-Friendly Coolant System for Composite CFRP (Carbon Fiber Reinforced Plastic) Drilling	Grace Wang	Wednesday, March 10	9:00 AM
Courseload, LLC	0945499	Michael	Levitan	SBIR Phase I: Courseload Learning Platform: Digital Delivery and Use of Course Materials in Higher Education	Ian Bennett	Monday, March 8	4:15 PM
Creatv MicroTech, Inc.	0945747	Cha-Mei	Tang	SBIR Phase I: In-line Monitoring of Pathogens in Treated Waste Water	Ruth Shuman	Monday, March 8	2:15 PM

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Crossbow Technology, Inc.	0945335	John	Zhang	SBIR Phase I: High Precision MEMS Gyroscopes for Gyrocompassing	Juan Figueroa	Monday, March 8	3:30 PM
Cyber Materials Solutions	0945751	Dennis	Radgowski	SBIR Phase I: Sensing and Control System for High Velocity Oxygen Fuel (HVOF) Deposited Nanocomposite Coatings	Cheryl Albus	Wednesday, March 10	1:45 PM
Dendritech, INC	0945303	Steve	Kaganove	SBIR Phase I: Disinfection of Spore-Forming Bacteria with Advanced Functional Surface Coatings	Ruth Shuman	Monday, March 8	4:45 PM
Divergence, Inc.	0944853	Urszula	Slomczynska	SBIR Phase I: Novel Advanced Nematicides with Improved Efficacy and Safety	Anthony Walters	Wednesday, March 10	11:45 AM
DNA Polymerase Technology, Inc.	0945089	Milko	Kermekchiev	SBIR Phase I: Inhibition-Resistant DNA Polymerases and Other Improvements for Detection of Food-borne Pathogens.	Gregory Baxter	Wednesday, March 10	8:15 AM
Doty Scientific, Inc.	0945502	F David	Doty	SBIR Phase I: A Novel Engine for Dramatically Improved Efficiency in a Geothermal-CSP Hybrid	Anthony Walters	Monday, March 8	2:15 PM
Dynaflow Inc	0945508	Jin Keun	Choi	SBIR Phase I: Paint Sludge Separation Using Enhanced Cross-Flow Filtration	Anthony Walters	Wednesday, March 10	2:00 PM
E3 Materials LLC	0945513	Pingshan	Wang	SBIR Phase I: TBNTBN	Ruth Shuman	Monday, March 8	3:30 PM
Echelon Biosciences, Inc.	0944243	Damian	Madan	SBIR Phase I: Near Infrared Substrates for Imaging Autotaxin Activity In Vivo	Gregory Baxter	Monday, March 8	2:15 PM
Ecosil Technologies LLC	0944705	William	VanOoij	SBIR Phase I: An Approach to Pigments that Provide Corrosion Protection on-Demand	Ben Schrag	Wednesday, March 10	8:45 AM
Ecovative Design LLC	0944529	Gavin	McIntyre	SBIR Phase I: Method of Disinfecting Precursor Materials using Plant Essential Oils for a new Material Technology	Ben Schrag	Monday, March 8	1:15 PM
Educational Network Services, Inc.	0944956	Paul	Horwitz	SBIR Phase I: Mathemantics: Diagnostic Math Games for Kindergarten Children	Ian Bennett	Wednesday, March 10	10:45 AM
Electrooptic Technologies and Application Systems	0945327	Lin	Pang	SBIR Phase I: Hybrid holographic lithography for cost-effective fabrication of nanostructures	Cheryl Albus	Wednesday, March 10	8:45 AM
emota.net	0945505	Paul	To	SBIR Phase I: An Internet-based Emotional Connectedness and Monitoring Device and Service for the Elderly	Errol Arkilic	Monday, March 8	1:30 PM
Endres Machining Innovations	0945405	William	Endres	SBIR Phase I: Effectively-Thick Coating of High-Wear Surfaces with Application to Cutting Tools	Grace Wang	Wednesday, March 10	8:45 AM
Energy Derived LLC	0945239	Jeff	Collier	SBIR Phase I: Development of a Device for Harvesting Biomass from a Water-Based Growth Medium	Anthony Walters	Wednesday, March 10	8:00 AM
Enpoint, LLC	0945001	Robert	Pinto	SBIR Phase I: Precision Gravimetry Sensing	Juan Figueroa	Monday, March 8	1:30 PM
En'lurga Inc.	0945236	Yudaya	Sivathanu	SBIR Phase I: Visual Information Delivery Robot for Visually Impaired Children	Ian Bennett	Monday, March 8	2:30 PM
En'lurga Inc.	0945320	Ye	Mi	SBIR Phase I: Three-Phase Flowmeter For Oil Industry	Murali Nair	Monday, March 8	2:00 PM
Envis Corporation	0945452	Hamid	Savoj	SBIR Phase I: TBC - Test Bench Compaction for Improving the Efficiency of Full-Chip Power and Thermal Evaluation	Murali Nair	Wednesday, March 10	9:30 AM
ePack, Inc.	0945795	Jay	Mitchell	SBIR Phase I: A Universal Wafer-Level Capping Process for MEMS and Microdevices	Juan Figueroa	Wednesday, March 10	8:00 AM
Everspin Technologies	0946127	Nicholas	Rizzo	SBIR Phase I: Structures for reduced critical current to enable Spin Torque MRAM	Cheryl Albus	Wednesday, March 10	10:45 AM
Exelera, LLC	0944922	Dimitri	Gioev	SBIR Phase I: Game-like Teaching/Practice System with Automated Personalized Text Messaging, Email, Web, and Voice Interaction	Ian Bennett	Monday, March 8	1:30 PM
EY Technologies	0930437	Rathna	Perera	STTR Phase I: Co-extruded electroded fiber sensors and actuators	Cheryl Albus	Wednesday, March 10	10:30 AM
Fairfield Crystal Technology, LLC	0943961	Shaoping	Wang	SBIR Phase I: A Novel Crystal Growth Technology for Production of ZnO Single Crystal Substrates for Light Emitters and Detectors	Ben Schrag	Monday, March 8	1:45 PM

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Faraday Technology, Inc.	0944523	Joseph	Kell	SBIR Phase I: Electroconcentration, Separation, and Rupture of Bioalgae for Fuel Production	Anthony Walters	Monday, March 8	1:00 PM
Faraday Technology, Inc.	0944707	Holly	Garich	SBIR Phase I: Faradaic ElectroCell	Cheryl Albus	Monday, March 8	1:15 PM
Fibron Inc.	0930767	Christina	Baker	STTR Phase I: Polyaniline Nanofiber Urinary Tract Infection Biosensor-A Multi-Functional Bioresponsive Material	Cheryl Albus	Wednesday, March 10	2:00 PM
Fidelity Comtech Inc.	0945252	Joseph	Carey	SBIR Phase I: Dynamic Broadband Wireless Networks	Murali Nair	Wednesday, March 10	9:45 AM
Firebird Advanced Materials, Inc.	0944993	Charles	Segal	SBIR Phase I: Use of Recycled Carbon Fibers in Sheet Molding Compounds (SMC)	Ben Schrag	Monday, March 8	3:45 PM
Florado Entek, Inc.	0944441	Wenge	Zhang	SBIR Phase I: Ultrahigh Permittivity Polymer Derived Ceramic for Energy Storage Applications	Grace Wang	Wednesday, March 10	8:15 AM
Freight Pipeline Company	0930167	Jerry	Liu	STTR Phase I: Making Lightweight Building Products from Fly Ash	Josephine Yuen	Monday, March 8	3:45 PM
Fulcrum Composites Inc	0944716	Christopher	Edwards	SBIR Phase I: Development of a Low Cost Thermal Storage System Using a Novel Phase Change Material for Use with Solar Thermal and Waste Heat Recovery Systems	Ruth Shuman	Monday, March 8	1:15 PM
Fusion Coolant Systems, Inc.	0944814	Andrew	King	SBIR Phase I: Minimum Quantity Lubrication Delivered by Supercritical Carbon Dioxide for Forming Applications	Grace Wang	Wednesday, March 10	2:15 PM
Gamma Dynamics LLC	0944455	Kenneth	Dean	SBIR Phase I: Bistable Electrofluidic Device for High-Brightness Electronic Paper	Juan Figueroa	Wednesday, March 10	8:15 AM
Gamma Dynamics LLC	0945339	Kenneth	Dean	SBIR Phase I: Active Visible and Infrared Management for More Energy Efficient Buildings	Murali Nair	Wednesday, March 10	11:15 AM
Garbrook Knowledge Resources, Inc.	0944735	James	Garrels	SBIR Phase I: Targeted Information Products Built from a Curated Knowledge Base	Errol Arkilic	Monday, March 8	2:15 PM
General Nano, LLC	0945085	Ge	Li	SBIR Phase I: Achieving Breakthrough Properties for Carbon Nanotube Yarn Via Base Flow Chemical Vapor Deposition and Industrial Spinning	Grace Wang	Wednesday, March 10	8:30 AM
Genforma	0945232	Jeffrey	Fischer	SBIR Phase I: Automated Configuration Management for Open Source Applications	Errol Arkilic	Wednesday, March 10	8:30 AM
Gibbard Research and Development Corp.	0930649	Arthur	Kaufman	STTR Phase I: High-Performance, Non-Precious Metal Oxygen Reduction Catalysts	Josephine Yuen	Wednesday, March 10	1:00 PM
Glastonbury Musings Inc.	0945559	Ronda	Potter	SBIR Phase I: Optimal Enterprise Timetabling for Academic Institutions	Errol Arkilic	Wednesday, March 10	10:45 AM
Gratings, Incorporated	0930307	Saleem	Zaidi	STTR Phase I: High Efficiency Thin-film Photovoltaics on Low-cost Substrates by Layer Transfer	Josephine Yuen	Wednesday, March 10	10:30 AM
Green Revolution Cooling, Inc	0945346	Christiaan	Best	SBIR Phase I: Mineral oil cooling for energy and cost efficient data centers	Ruth Shuman	Monday, March 8	4:30 PM
Guidewire Group	0944932	Michael	Sigal	SBIR Phase I: Web Enabled Expert System to Scale Diagnosis and Improvement of Entrepreneurial Skills	Errol Arkilic	Wednesday, March 10	11:30 AM
Guild Associates Inc.	0944555	Joseph	Rossin	SBIR Phase I: Catalyst for the Oxidation of Methane in Coal Mine Ventilation Air	Josephine Yuen	Monday, March 8	1:15 PM
HAI Advanced Material Specialists, Inc.	0946177	Daren	Gansert	SBIR Phase I: Multi-Functional Materials for Multiple Applications	Ben Schrag	Wednesday, March 10	1:30 PM
Hans Tech	0944442	Clause	Xu	SBIR Phase I: Reinforcement of Lightweight Material Castings with Dissimilar Metals	Cheryl Albus	Monday, March 8	2:45 PM
Harmonic Devices Inc.	0945391	Justin	Black	SBIR Phase I: Miniaturized Contour-Mode Intermediate Frequency (IF) Piezoelectric Aluminum Nitride MEMS Filters for Electronic Communication	Murali Nair	Wednesday, March 10	11:45 AM
Heavystone Laboratory, LLC	0945261	Peng	Fan	SBIR Phase I: Functionally Graded Cemented Tungsten Carbide -- Process and Properties	Grace Wang	Wednesday, March 10	10:30 AM
Hi-Z Technology Inc	0930756	Saeid	Ghamaty	STTR Phase I: Materials for Sustainability	Josephine Yuen	Wednesday, March 10	1:45 PM

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Hoowaki LLC	0945386	Ralph	Hulseman	SBIR Phase I: Manufacturing Technology for Microstructured Hydrophobic Surfaces	Grace Wang	Monday, March 8	2:45 PM
Hydroqual Inc	0945652	Chengyue	Shen	SBIR Phase I: Developing a Multi-Functional Nanoparticle-Enhanced Filter Media for Decentralized Water Purification Systems	Ben Schrag	Wednesday, March 10	8:30 AM
HYPRES, Inc.	0930489	Masoud	Radparvar	STTR Phase I: Novel Materials for a PicoCalorimeter Biological Application	Gregory Baxter	Wednesday, March 10	8:45 AM
HYPRES, Inc.	0944995	Deepnarayan	Gupta	SBIR Phase I: Modified Doherty Transmit Architecture Employing Digital Signal Synthesis for Wideband RF Communication	Murali Nair	Wednesday, March 10	9:00 AM
iFyber, LLC	0945338	Aaron	Strickland	SBIR Phase I: Integrated Textile Detection Platform for Positive Identification	Grace Wang	Wednesday, March 10	1:15 PM
Illuminex Corp.	0929448	Youssef	Habib	STTR Phase I: Photovoltaic Fabric	Josephine Yuen	Monday, March 8	1:30 PM
Independence Science, LLC	0945481	Cary	Supalo	SBIR Phase I: Promoting STEM Education for Students Who are Blind or Print Disabled Through the Development of the First Talking Pocket Size Scientific Data Collection Device	Ian Bennett	Monday, March 8	4:00 PM
Industrial Learning Systems	0945222	Balaji	Sukumar	SBIR Phase I: Continuous Production of Crystalline Silicon Sheet (or wafer) for Solar Cell	Cheryl Albus	Wednesday, March 10	8:00 AM
Industrial Measurement Systems Inc.	0945455	Donald	Yugas	SBIR Phase I: Tools for Improved Friction Material Processing	Cheryl Albus	Wednesday, March 10	11:15 AM
Information in Place, Inc.	0945681	Jamie	Kirkley	SBIR Phase I: Astro-Engineer: Implement Problem-based Serious Games Approach to Engage Middle School Students in Engineering Design Challenges Related to Colonizing Space	Ian Bennett	Wednesday, March 10	8:45 AM
Inframat Corp.	0930144	T. Danny	Xiao	STTR Phase I: Spray-On Nanostructured Metal Oxide Films for Efficient Solar Energy Conversion	Josephine Yuen	Wednesday, March 10	2:00 PM
Inlustra Technologies LLC	0946011	Paul	Fini	SBIR Phase I: Scalable Bulk GaN Crystal Growth	Grace Wang	Monday, March 8	4:00 PM
Innovatech Inc.	0945529	Steve	Wright	SBIR Phase I: Cost Effective Microalgae Harvesting in Phytobioreactors	Anthony Walters	Monday, March 8	3:45 PM
Innovative Micro Technology	0944675	Jaquelin	Spong	SBIR Phase I: Single Cell Growth Measuring Device	Josephine Yuen	Wednesday, March 10	8:45 AM
Innovega Inc.	0944890	Randall	Sprague	SBIR Phase I: Optic-On-Eye Virtual Reality Display	Juan Figueroa	Wednesday, March 10	9:00 AM
Insera Therapeutics Inc.	0946099	Vallabh	Janardhan	SBIR Phase I: Technology development and pre-clinical testing of a novel minimally invasive catheter-based blood clot-retrieval and clot-filtering device	Gregory Baxter	Wednesday, March 10	9:45 AM
Institute for Disabilities Research and Training, Inc.	0944752	Corinne	Vinopol	SBIR Phase I: ASL Literacy Support System	Ian Bennett	Monday, March 8	2:45 PM
Intact Labs LLC	0945620	Matthew	Silver	SBIR Phase I: Energy Efficient BOD Removal and Denitrification for Recirculating Aquaculture Facilities with a Combined Bioelectrochemical Process	Gregory Baxter	Wednesday, March 10	11:00 AM
Integrated Photonics, Inc.	0930525	Vincent	Fratello	STTR Phase I: Development of Materials for Optical Band Gaps in Magneto-Photonic Crystals for Switching and Biosensor Applications	Cheryl Albus	Monday, March 8	4:00 PM
inXsol, LLC	0945987	Henry	Rying	SBIR Phase I: The Way Entrepreneurs Learn: Migration from Supercoach Instructor-Led Entrepreneurial Education Curriculum to Blended Learning Technology	Ian Bennett	Wednesday, March 10	11:00 AM
ISCA Technologies, Inc.	0945863	Agenor	Mafra-Neto	SBIR Phase I: Versatile Hand Held Nanosensory Pathogen Detection Device for Real-Time Diagnosis	Grace Wang	Wednesday, March 10	11:00 AM
JEM Enterprises, Inc.	0945561	Paul	Wickboldt	SBIR Phase I: Tin(II) Sulfide Photovoltaics	Grace Wang	Monday, March 8	2:30 PM
Kavana Technology, LLC	0944000	Muralidhar	Rao	SBIR Phase I: Novel buffer layers for superior superconductor films on a low-cost substrate	Ben Schrag	Monday, March 8	2:30 PM
Kent Optronics, Inc.	0945488	Ben	Tang	SBIR Phase I: Ultrafast Self-Reactive Laser Eye Protection Devices	Ben Schrag	Monday, March 8	2:00 PM

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Kotura, Inc	0946131	Mehdi	Asghari	SBIR Phase I: Geo-photonics - Monolithic Integration in Silicon of Geometrically Diverse Photonic Components for Access, Datacom and Interconnect Applications	Juan Figueroa	Monday, March 8	4:45 PM
KWJ Engineering Incorporated	0945515	Joseph	Stetter	SBIR Phase I: Screen-Printed Gas Sensor using Nanoparticulate Catalyst	Murali Nair	Monday, March 8	4:45 PM
Labrador Research LLC (OndaVia, Inc.)	0945002	Mark	Peterman	SBIR Phase I: Hand-Held Device for PPB-level Water Analysis	Anthony Walters	Monday, March 8	4:15 PM
Lake Shore Cryotronics, Inc	0945136	Mahavir	Sanghavi	SBIR Phase I: Improved Metal Oxide Magneto-Optical Indicator Films and Method of Fabrication	Ben Schrag	Wednesday, March 10	10:45 AM
LaunchPoint Technologies, LLC	0945595	Maksim	Subbotin	SBIR Phase I: Magnetically Actuated Valve System	Anthony Walters	Wednesday, March 10	9:00 AM
LC Vision, LLC	0946085	Michael	Wang	SBIR Phase I: Ion and Radical-Free, Polymer-Stabilized, Vertically-Aligned Nematic LCDs for Enhanced Lifetime	Ben Schrag	Wednesday, March 10	9:15 AM
Leanics Corporation	0944654	Kung	Te-Lung	SBIR Phase I: High-Rate Low-Power Wireless Telemetry System for Medical Applications	Murali Nair	Wednesday, March 10	11:00 AM
Lenterra Inc	0945167	Mark	Denning	SBIR Phase I: Spectral photoionization detector (SPID): real-time, in situ detection and identification of volatile organic compounds using electron spectroscopy	Anthony Walters	Wednesday, March 10	11:15 AM
Librede Inc.	0945802	Jason	Poulos	SBIR Phase I: Development of new materials for a low cost high throughput ion channel measurement platform	Gregory Baxter	Monday, March 8	1:30 PM
Life BioScience, Inc.	0944432	Colin	Buckley	SBIR Phase I: BVDV Detection by Novel Micropost Technology	Anthony Walters	Wednesday, March 10	9:15 AM
Life BioScience, Inc.	0945752	Jeb	Flemming	SBIR Phase I: Novel Glass/Glass-Ceramic Material for Electronics Packaging	Juan Figueroa	Wednesday, March 10	9:30 AM
LifeSciTech, LLC	0930603	Emily	Tarsis	STTR Phase I: ACC Synthesis - a way to create safer, efficacious and inexpensive Single Enantiomers	Gregory Baxter	Monday, March 8	1:45 PM
LivingText LLC	0945571	Deborah	Gibson	SBIR Phase I: LECTURETOOLS - An Integrated Textbook/Learning Management System	Ian Bennett	Wednesday, March 10	8:00 AM
M4 Sciences LLC	0944980	James	Mann	SBIR Phase I: Large-Scale Production of Non-Ferrous Metal Fibers by Modulation-Assisted Machining	Cheryl Albus	Monday, March 8	4:15 PM
Magnolia Optical Technologies Inc.	0930343	Ashok	Sood	STTR Phase I: Concentrator Photovoltaics with High-Refractive-Index Encapsulants	Josephine Yuen	Wednesday, March 10	11:45 AM
MATECH Advanced Materials	0946102	Edward	Pope	SBIR Phase I: Novel Environmental Barrier Coatings for High-Temperature Metals and Ceramic Matrix Composites	Ben Schrag	Wednesday, March 10	1:45 PM
Materials Innovation Technologies, LLC.	0944498	Mark	Janney	SBIR Phase I: Long Fiber Thermoplastic Composites from Recycled Carbon Fiber	Grace Wang	Monday, March 8	1:00 PM
Mayaterials Inc.	0945489	Vera	Popova	SBIR Phase I: NSF 09-541 NM N2: Cubic Silsesquioxanes as Green, Novel, Nano-engineered Materials for Hard, Thermally Stable and Hydrophobic Coatings	Grace Wang	Wednesday, March 10	8:00 AM
MedChem Partners LLC	0943648	Steven	Riesinger	SBIR Phase I: Ring Contraction Metathesis Reaction for the Generation of Novel Polyene Macrolides	Gregory Baxter	Wednesday, March 10	8:30 AM
Medken LLC	0945953	Armin	Moehrle	SBIR Phase I: Mammography Analysis and Reporting System	Errol Arkilic	Wednesday, March 10	8:45 AM
MemPro Ceramics Corporation	0945084	Gary	Carlson	SBIR Phase I: Immobilization of Catalyzed Metal Oxide Nanofibers for Advanced Catalyst Support Structures	Ben Schrag	Monday, March 8	4:15 PM
Meridian Deployment Corporation	0944928	Eric	Pan	SBIR Phase I: Motion-Free Tracking Solar Concentrator	Juan Figueroa	Monday, March 8	2:15 PM
Mesa Photonics, LLC	0930697	Daniel	Kane	STTR Phase I: The Development of Quantum Dot Materials for Ultrafast Laser Applications	Ben Schrag	Wednesday, March 10	11:45 AM
MetaModal LLC	0946035	Enrico	Di Bernardo	SBIR Phase I: Viability of a Sensory Substitution Device Giving Blind Users Sight Through Sound	Murali Nair	Wednesday, March 10	8:15 AM
MetaTenna	0945428	Adam	Fontecchio	SBIR Phase I: Inkjet Printed Antennas for Wireless Local Area Networks	Murali Nair	Monday, March 8	2:15 PM

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METFAB Technologies, Inc.	0945074	Eugene	Park	SBIR Phase I: Replacement of Toxic and Polluting Cleaning Processes Using Vacuum Cycle Nucleation	Anthony Walters	Monday, March 8	4:45 PM
Metramateria Partners LLC	0930626	Suvankar	Sengupta	STTR Phase I: High power, High energy density, Nanostructured bulk Li-ion Battery	Grace Wang	Wednesday, March 10	2:00 PM
Mezmeriz, Inc.	0945721	Shahyaan	Desai	SBIR Phase I: Next Generation Displays Based on Novel Carbon Fiber MEMS Micromirrors	Juan Figueroa	Wednesday, March 10	9:15 AM
Michigan Aerospace Corporation	0945388	Dominique	Fourquette	SBIR Phase I: A Ground-Based Sensor Array for Wake Vortex Detection	Murali Nair	Monday, March 8	1:15 PM
MicroGREEN Polymers, Inc.	0946152	Xiaoxi	Wang	SBIR Phase I: Continuous Production of Lightweight and Energy Efficient Solid-State Microcellular Panels from Recycled PET	Ben Schrag	Monday, March 8	1:00 PM
Micromechatronics Inc	0945613	Alfredo	Vazquez-Carazo	SBIR Phase I: Isolator with MEMS piezoelectric transformer	Juan Figueroa	Monday, March 8	4:15 PM
Micropyrectics Heaters Int'l LLC	0945439	G	Reddy	SBIR Phase I: Durable Nano-Coatings with MoS <sub>2</sub> for Antibacterial High Wear Use	Grace Wang	Monday, March 8	4:30 PM
Middle Way Photonics	0930364	Jeannie	Williams	STTR Phase I: Nanomaterial constructs with controllable catalytic activity: Topic MM-Subtopic SMS	Cheryl Albus	Monday, March 8	1:30 PM
MIOX Corporation	0945851	Andrew	Boal	SBIR Phase I: Investigation of the use of Chlorine Based Oxidants for Removal of Natural Organic Matter using Advanced Oxidation Processes	Ruth Shuman	Monday, March 8	4:00 PM
Mirrorcle Technologies, Inc.	0945992	Veljko	Milanovic	SBIR Phase I: Real-time 3D Tracking and Position Measurement System Using Scanning MEMS Mirrors	Murali Nair	Monday, March 8	1:45 PM
Mobile Power Solutions	0944420	Andrew	Tipton	SBIR Phase I: Improved Analysis of Li-ion Battery Safety and Performance Using Impedance Spectroscopy	Josephine Yuen	Wednesday, March 10	2:15 PM
Modumetal, Inc.	0944751	John	Whitaker	SBIR Phase I: Thick Thermal Barrier Coatings	Ben Schrag	Wednesday, March 10	9:30 AM
Molycorp Minerals LLC	0945636	Charles	Whitehead	SBIR Phase I: Inorganic Sorbent Media for Removing a Broad Spectrum of Waterborne Contaminants	Ruth Shuman	Wednesday, March 10	11:00 AM
Mound Laser & Photonics Center, Inc.	0945458	Carl	Druffner	SBIR Phase I: Laser Machining of Terahertz Waveguide & Microscopy Components	Cheryl Albus	Monday, March 8	3:45 PM
Mound Laser & Photonics Center, Inc.	0945474	Carl	Druffner	SBIR Phase I: IDT Sensors for Monitoring Wind Energy Infrastructure	Murali Nair	Monday, March 8	4:00 PM
MoveableCode inc.	0945691	Nicholas	Napp	SBIR Phase I: Realtime Markerless Scene Tracking on a Smartphone	Errol Arkilic	Monday, March 8	4:00 PM
Moxtronics Inc.	0943788	Yungryel	Ryu	SBIR Phase I: BeZnO UV Detector	Juan Figueroa	Wednesday, March 10	9:45 AM
MTECH Laboratories, LLC	0945553	Eduard	Mueller	SBIR Phase I: High-Efficiency Energy Distribution and Conversion System for Buildings	Murali Nair	Wednesday, March 10	1:00 PM
Nano Engineered Materials corporation	0945004	HanGi	Chae	SBIR Phase I: Low Density Carbon Fibers Based on Gel Spun Polyacrylonitrile/Carbon Nanotube	Grace Wang	Wednesday, March 10	11:30 AM
Nano Liquid Devices, Inc	0946111	Youngsoh	Park	SBIR Phase I: Low Cost, High Bandwidth RF Switch	Murali Nair	Monday, March 8	1:00 PM
Nano3D Biosciences, Inc.	0945954	Glauco	Souza	SBIR Phase I: In Vitro 3D Lung Tissue Model for Drug Discovery and Toxicity Screening	Gregory Baxter	Monday, March 8	1:15 PM
NanoAqueonics	0944927	Bakul	Dave	SBIR Phase I: A Sustainable Laundry Solution: Organosilane Based Fabric Conditioners for Reducing the Environmental Footprint and Energy Consumption In Laundry Systems	Gregory Baxter	Wednesday, March 10	8:00 AM
NanOasis	0946162	Jason	Holt	SBIR Phase I: Nanocomposite Membranes for Solvent-Resistant Nanofiltration and Reverse Osmosis	Ruth Shuman	Monday, March 8	3:45 PM
NANO-C, INC	0930523	Henning	Richter	STTR Phase I: Large-scale Manufacture of Exclusively Metallic or Semiconducting Single-walled Carbon Nanotubes	Grace Wang	Wednesday, March 10	9:30 AM
NANO-C, INC	0930526	Ramesh	Sivarajan	STTR Phase I: Fullerene Molecule-Silica Hybrid Dielectrics for the Field-Sensitive Tunneling Barriers in Flash Memory.	Grace Wang	Wednesday, March 10	9:45 AM
NANO-C, INC	0945296	Henning	Richter	SBIR Phase I: Optimized Multi-substituted Fullerene n-phase for High Performance Organic Photovoltaic (OPV) Devices	Juan Figueroa	Wednesday, March 10	10:00 AM

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nanoComposix, Inc.	0945928	Richard	Baldwin	SBIR Phase I: Continuous Flow Synthesis of Metal Nanoparticles	Ben Schrag	Wednesday, March 10	8:00 AM
nanoGriptech LLC	0930610	Burak	Aksak	STTR Phase I: Biologically Inspired Polymer Fiber Adhesives as Enhanced Gripping Materials	Josephine Yuen	Monday, March 8	2:45 PM
Nanoptics Inc	0930206	Young	Noh	STTR Phase I: Development and Manufacture of Multi-Functional Materials and Structures	Josephine Yuen	Wednesday, March 10	2:30 PM
Nanorods, LLC	0945472	Linjie	Li	SBIR Phase I: Multi-wavelength Infrared thermal Detectors and Imagers	Ben Schrag	Monday, March 8	2:15 PM
Nanoscale Materials Inc.	0930673	Franklin	Kroh	STTR Phase I: Intelligent Low-Toxicity Nanoparticles for Cancer Diagnosis and Treatment	Gregory Baxter	Monday, March 8	4:30 PM
Nanosolar, Inc.	0945584	Matthew	Robinson	SBIR Phase I: Durable Anti-Reflective Nanostructured Coatings for Photovoltaic Devices	Grace Wang	Wednesday, March 10	2:30 PM
NanoSonix, Inc	0945959	Arvind	Srivastava	SBIR Phase I: Development of Scanning Near Field Ultrasound Holography with Integrated Electronic Detection for Sub-Surface Nanomechanical Imaging	Ben Schrag	Monday, March 8	4:30 PM
Nanospectra Biosciences, Inc.	0945088	Glenn	Goodrich	SBIR Phase I: Nanoparticle-Based Radio-Imaging and Ablation of Lung Cancer	Grace Wang	Monday, March 8	3:30 PM
Nanotek Instruments, Inc.	0944784	Jason	Shi	SBIR Phase I: Ultra High Capacity and High Rate Anodes for Next Generation Lithium-Ion Batteries	Josephine Yuen	Wednesday, March 10	8:15 AM
Nanotrons Corporation	0945191	Je Kyun	Lee	SBIR Phase I: High Energy Density Nanodielectrics for Commercial Pulse Power Applications	Grace Wang	Monday, March 8	1:15 PM
NaugaNeedles LLC	0944435	Mehdi	Yazdanpanah	SBIR Phase I: Batch Fabrication of High Aspect Ratio Metallic AFM Probes	Ben Schrag	Wednesday, March 10	11:15 AM
NEI Corporation	0945199	Ganesh	Skandan	SBIR Phase I: Enhanced Sludge Dewatering with Improved Odor Control	Anthony Walters	Wednesday, March 10	10:45 AM
New England Rare Reagents	0945155	Robert	Lawton	SBIR Phase I: Development of Soluble Analyte Amplification for PBP2a Detection	Gregory Baxter	Monday, March 8	4:00 PM
Next Generation Technology SCRD Inc.	0945799	Namita	Deo	SBIR Phase I: New Plant Based Benign Actives for Sun screen and Cosmetics Applications	Josephine Yuen	Monday, March 8	5:00 PM
NGIMAT CO.	0945637	Yongdong	Jiang	SBIR Phase I: Advanced Dielectric Nanocomposites	Grace Wang	Wednesday, March 10	9:15 AM
nimble Assessment Systems, Inc.	0944463	Thomas	Hoffmann	SBIR Phase I: Creating an Interoperable Accessible Student Assessment System	Ian Bennett	Monday, March 8	2:15 PM
Northern Technologies International Corporation	0930665	Shilpa	Manjure	STTR Phase I: Advanced Poly(lactide) (PLA) Materials for Extruded Sheet Applications	Josephine Yuen	Wednesday, March 10	9:15 AM
Northern Technologies International Corporation	0945200	Shilpa	Manjure	SBIR Phase I: BioBased Coatings for Corrosion Protection	Josephine Yuen	Wednesday, March 10	9:30 AM
Novabone Products, LLC	0945068	David	Gaisser	SBIR Phase I: Novel Ceria Nano-particle Containing Bioactive Scaffolds for Enhanced Bone Regeneration	Grace Wang	Wednesday, March 10	10:45 AM
NovaScan LLC	0944454	William	Gregory	SBIR Phase I: Electrical Property Detection of Residual Cancer in the Surgery Suite	Gregory Baxter	Monday, March 8	2:00 PM
Novashield, Inc.	0945385	Greg	Zelesnik	SBIR Phase I: An Efficient System for Malware Analytics	Errol Arkilic	Monday, March 8	1:15 PM
NP Photonics LLC	0946002	Jianfeng	Wu	SBIR Phase I: Ultra Compact Passive Mode-Locked All-Fiber 2 Micron Fiber Laser	Juan Figueroa	Monday, March 8	2:45 PM
NSC Technology	0930634	Jin	Luo	STTR Phase I: Multifunctional Magnetic Core-Shell Nanoparticles	Ben Schrag	Monday, March 8	4:45 PM
OG Technologies, Inc.	0944614	Tzyy-Shuh	Chang	SBIR Phase I: IPPM: In-Line Piercing Process Monitoring For Seamless Tube Manufacturing	Cheryl Albus	Monday, March 8	3:30 PM
OMAX Corporation	0944239	Peter	Liu	SBIR Phase I: Development of Subminiature Abrasive-Waterjet Nozzles toward Micromachining	Cheryl Albus	Monday, March 8	2:30 PM

**NATIONAL SCIENCE FOUNDATION MEETING SCHEDULE**

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Omega Optics, Inc.	0945688	Swapnajit	Chakravarty	SBIR Phase I: Photonic Crystal Slot Waveguide Miniature Spectrometer for In-Situ Groundwater Contaminant and Greenhouse Gas Detection and Identification	Ruth Shuman	Wednesday, March 10	8:30 AM
Omic Biosystems, Inc.	0945037	Feng	Tao	SBIR Phase I: New ABPP Probes and Sample Preparation Methods for Biomarker Discoveries	Gregory Baxter	Monday, March 8	3:30 PM
Omniprobe	0945896	Cheryl	Hartfield	SBIR Phase I: Instrumentation for In-situ CLEM (Correlated Light and Electron Microscopy)	Gregory Baxter	Wednesday, March 10	10:45 AM
OnMaterials, LLC	0944742	John	Freim	SBIR Phase I: Multi-functional Nanoamendments for Enhanced Anaerobic Bioremediation	Anthony Walters	Wednesday, March 10	8:45 AM
OnTo Technologies	0946117	Steven	Sloop	SBIR Phase I: Automated Disassembly	Josephine Yuen	Monday, March 8	2:15 PM
Orthogonal, Inc	0945700	John	DeFranco	SBIR Phase I: Enabling large-scale manufacturing of organic electronic devices using photolithography	Ben Schrag	Wednesday, March 10	2:15 PM
Oshkosh Nanotechnology, LLC	0930029	Charles	Gibson	STTR Phase I: High Performance Electrical Energy Storage (EES) Devices.	Josephine Yuen	Monday, March 8	4:00 PM
Percipience Group, Inc.	0945592	Blair	Urish	SBIR Phase I: Algae Trickle-Screen Test	Anthony Walters	Wednesday, March 10	1:00 PM
Peregrine Power LLC	0944894	Dallas	Marckx	SBIR Phase I: Universal Utility/Customer Interface	Murali Nair	Wednesday, March 10	8:30 AM
Perpetua Power Source Technologies, Inc.	0946142	Paul	McClelland	SBIR Phase I: Flexible Thin-Film Thermoelectric Wearable Energy Harvester	Murali Nair	Monday, March 8	3:30 PM
Phage Biocontrol, LLC	0945913	Neil	Summer	SBIR Phase I: Phage control of filamentous bacteria - A novel focused antimicrobial approach to counter microbial problems in municipal wastewater systems	Anthony Walters	Wednesday, March 10	11:00 AM
Photon Energy Technology	0944979	Rajeev	Nair	SBIR Phase I: Nanotechnology - Nanotexturing of Stents for Improved Performance	Grace Wang	Wednesday, March 10	1:45 PM
Photon Machines, Inc.	0945297	Steven	Buckley	SBIR Phase I: Design and Development of a Comprehensive Instrument for Measurement of Aerosol Size and Elemental Composition	Josephine Yuen	Wednesday, March 10	11:30 AM
Phthisis Diagnostics, LLC	0945221	Crystal	Icenhour	SBIR Phase I: Standardizing Microbial Water Quality Monitoring Using Synthetic Biology	Anthony Walters	Wednesday, March 10	9:30 AM
PhyloTech Inc.	0944433	Ryan	Shepherd	SBIR Phase I: A protein-based biofungicide for agricultural use	Ruth Shuman	Monday, March 8	2:00 PM
Pine Hill Labs, Inc.	0946015	Gerald	Chu	SBIR Phase I: Inferring Neural State with a Home-Based Robotic System	Murali Nair	Monday, March 8	4:30 PM
Pixelligent Technologies LLC	0945305	Zehra	Gonen Williams	SBIR Phase I: Resist for DUV Lithography	Cheryl Albus	Monday, March 8	2:00 PM
Plasma Controls, LLC	0945996	Cody	Farnell	SBIR Phase I: Plasma Enhanced Chemical Vapor Deposition of Hydroxyapatite Coatings	Josephine Yuen	Monday, March 8	4:30 PM
Plasma Technology Incorporated	0930750	Satish	Dixit	STTR Phase I: EBC/TBC coating system for Si-based ceramic components for improved gas turbine performance and lifetimes	Ruth Shuman	Wednesday, March 10	8:15 AM
Plextronics, Inc.	0945604	Shawn	Williams	SBIR Phase I: Macrocycle-Enhanced Nanotechnology Organic Photovoltaic Solutions	Grace Wang	Monday, March 8	3:45 PM
Plymouth Grating Laboratory, Inc.	0945432	Bruce	MacLeod	SBIR Phase I: Double Patterning using Optical Lithography for Fabricating 50 nm Nanostructures on Meter Scale Substrates	Ben Schrag	Monday, March 8	2:45 PM
Polnox Corporation	0945017	Ashok	Cholli	SBIR Phase I: Novel Antioxidants to Improve Thermo-Oxidative Stability of Biolubricants and Biodiesel	Ruth Shuman	Monday, March 8	4:15 PM
Porifera inc.	0946090	Olgica	Bakajin	SBIR Phase I: Ultra Permeable Carbon Nanotube Membranes for Forward Osmosis	Ben Schrag	Wednesday, March 10	11:00 AM
Porifera inc.	0930427	Olgica	Bakajin	STTR Phase I: Cooperative Nanostructure Driven Self-Assembly in Carbon Nanotube/Block Co-Polymer Systems	Josephine Yuen	Wednesday, March 10	10:45 AM
PoroGen LLC	0944820	Yong	Ding	SBIR Phase I: Novel Polymeric Membrane for Hydrocarbon Separation	Ruth Shuman	Wednesday, March 10	9:15 AM

**NATIONAL SCIENCE FOUNDATION MEETING SCHEDULE**

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Potomac Photonics Inc	0945277	Clad	Christensen	SBIR Phase I: Energy Storage, Electrical Distribution, and Packaging for Wireless Sensor Networks	Murali Nair	Monday, March 8	2:45 PM
Power Tagging Technologies, Inc.	0944859	Steven	Berens	SBIR Phase I: Power Tagging Grid Intelligence for 21st Century Energy Applications	Errol Arkilic	Wednesday, March 10	10:30 AM
Prendismo, LLC	0944258	Bruce	Ganem	SBIR Phase I: Entrepreneurship Education Using Interactive Media	Ian Bennett	Wednesday, March 10	9:00 AM
Prometheus Research, LLC	0944460	Leonid	Rozenblit	SBIR Phase I: Data Discovery Tool	Errol Arkilic	Wednesday, March 10	11:45 AM
Protein Genomics	0945065	Burt	Ensley	SBIR Phase I: Construction of Vascular Structures with Human Tropoelastin	Gregory Baxter	Monday, March 8	1:00 PM
Proton Energy Systems, Inc.	0930447	Kathy	Ayers	STTR Phase I: Development of High Temperature Membranes for Increased PEM Electrolysis Efficiency	Josephine Yuen	Monday, March 8	3:30 PM
Quansor Corporation	0944476	John	Merrill	SBIR Phase I: Real-time Monitor to Detect Waterborne Contaminants	Anthony Walters	Wednesday, March 10	8:15 AM
QuantLogic Corporation	0945850	Deyang	Hou	SBIR Phase I: Developing An Unique Variable Orifice Fuel Injector to Enable Advanced Mixed-Mode Combustion	Ruth Shuman	Monday, March 8	2:30 PM
QuantTera	0930623	Matt	Kim	STTR Phase I: Broadband Silicon-Germanium Based Quantum Dot Materials	Ben Schrag	Wednesday, March 10	2:30 PM
QuantTera	0946000	Matt	Kim	SBIR Phase I: Ultra Low Power InAsN Semiconductor Transistors	Murali Nair	Wednesday, March 10	2:45 PM
Quantum Applied Science & Research, Inc.	0945118	Konstantine	Ermolaev	SBIR Phase I: Reduced Noise Bioelectrode for Improved Detection and Imaging	Josephine Yuen	Monday, March 8	4:45 PM
RadiaBeam Technologies, LLC	0946169	Xiaodong	Ding	SBIR Phase I: Online, Virtual Classroom Environment for Science Education	Ian Bennett	Monday, March 8	2:00 PM
Resodyn Corporation	0930709	Manfred	Biermann	STTR Phase I: Field-Applicable Anticorrosion Coatings Using Polyaniline Nanofibers	Gregory Baxter	Wednesday, March 10	9:00 AM
Reveal Design Automation, Inc.	0945757	Zaher	Andraus	SBIR Phase I: Scalable Formal Verification of Digital Integrated Circuits	Errol Arkilic	Wednesday, March 10	11:00 AM
Rocket Technology Labs, Inc.	0944544	Jonathan	Rosenberg	SBIR Phase I: Unified Social Inbox	Errol Arkilic	Monday, March 8	4:30 PM
Scientific Fishery Systems, Inc	0944737	Patrick	Simpson	SBIR Phase I: Autonomous Underwater Animal Tracker	Murali Nair	Monday, March 8	3:45 PM
SciGenesis, LLC	0930621	Praveen	Madasu	STTR Phase I: Novel Nanoparticle Complexes for Tunable Dielectric Materials	Cheryl Albus	Wednesday, March 10	2:15 PM
Secure Banking Solutions	0945830	Erik	Osterkamp	SBIR Phase I: Information Risk Management System for Small and Medium-Sized Financial Institutions	Errol Arkilic	Wednesday, March 10	9:00 AM
Seftec	0944559	William	Seffens	SBIR Phase I: Student Assessment from Mobility Analysis in Virtual World Learning	Ian Bennett	Monday, March 8	4:45 PM
Selah Technologies, LLC	0930494	Andrew	Metters	STTR Phase I: Holistic Separation of High Purity Metallic and Semiconducting Single-Wall Carbon Nanotubes	Grace Wang	Monday, March 8	1:45 PM
SenMater Technology	0932661	Chuanmin	Ruan	STTR Phase I: Development of Aptamer-ssDNA Intelligent Hydrogel Materials for Magnetoelastic Detection of Avian Influenza Virus	Gregory Baxter	Monday, March 8	2:45 PM
Sensor Electronic Technology, Inc.	0945304	Max	Shatalov	SBIR Phase I: Development of UV-B SLED and LD	Grace Wang	Monday, March 8	1:30 PM
Sensys Networks, Inc.	0945919	Robert	Kavaler	SBIR Phase I: Wireless Weight in-Motion	Murali Nair	Wednesday, March 10	2:15 PM
SimBiotic Software	0944281	Eli	Meir	SBIR Phase I: CytoBeaker: Teaching cell biology using simulated experiments	Ian Bennett	Monday, March 8	1:00 PM
SimBiotic Software	0944938	Joel	Abraham	SBIR Phase I: Using Simulations for Large-Scale Assessment of Higher-Order Thinking Skills	Ian Bennett	Monday, March 8	1:15 PM
Smart Software Inc	0944261	Nelson	Hartunian	SBIR Phase I: Cluster-Based Forecasting of Intermittent Demand for Service and Spare Parts	Cheryl Albus	Monday, March 8	1:45 PM
Solarity	0945175	Travis	Benanti	SBIR Phase I: Lateral Collection Polycrystalline Silicon Solar Cells	Grace Wang	Wednesday, March 10	11:45 AM
Solarno	0930699	Qiang (Bill)	Wu	STTR Phase I: Synthesis of multifunctional nanofibrous polyaniline/carbon composites	Josephine Yuen	Wednesday, March 10	9:45 AM

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SparkSense, Inc.	0944235	Barry	Cronin	SBIR Phase I: SparkSense: Encouraging Tweens to Explore STEM Content Online	Ian Bennett	Monday, March 8	3:45 PM
Spectradyn Technologies LLC	0944831	Nikolay	Sveshnikov	SBIR Phase I: Hydropneumatic accumulator with a compressible regenerator	Anthony Walters	Monday, March 8	1:45 PM
Spectral MD Inc	0944376	Jose	Melendez	SBIR Phase I: 4-Dimensional Optical Tissue Imaging by Variable Digital Illumination	Juan Figueroa	Monday, March 8	2:00 PM
Split Engineering LLC	0945294	Donald	Kraemer	SBIR Phase I: The Development of a Cost-Effective LIDAR-Based System for Geo-Infrastructure Monitoring and Management	Murali Nair	Wednesday, March 10	9:15 AM
Stemina Biomarker Discovery, inc.	0945105	Paul	West	SBIR Phase I: Metabolomics of Human Embryonic Stem Cells to Predict Teratogenicity: An Alternative Developmental Toxicity Model	Gregory Baxter	Wednesday, March 10	1:30 PM
Sterling Biomedical, LLC	0944025	Michael	Szycher	SBIR Phase I: A Novel Antimicrobial Polymer for Medical Devices	Josephine Yuen	Wednesday, March 10	1:30 PM
Sterling International, Inc.	0944219	Qing-He	Zhang	SBIR Phase I: Beneficial Insect Attractants and Dispensers for Enhanced Insect Biological Control in Organic Food Production	Anthony Walters	Wednesday, March 10	8:30 AM
Stone Ridge Technology	0945666	Vincent	Natoli	SBIR Phase I: Bioinformatic FPGA Appliance	Errol Arkilic	Wednesday, March 10	9:15 AM
Stratatech Corporation	0945891	Kenneth	Gratz	SBIR Phase I: An Innovative Full-Thickness Human Skin Model for Increased Throughput Screening in Drug Discovery	Gregory Baxter	Monday, March 8	4:15 PM
Structured Materials Industries, Inc.	0930419	Nick	Sbrockey	STTR Phase I: Graphene Based NOx Detector	Cheryl Albus	Wednesday, March 10	11:30 AM
Sustainable Innovations, LLC	0944957	Trent	Molter	SBIR Phase I: Carbon Neutral Renewable Liquid Hydrocarbon Fuel Production System	Josephine Yuen	Wednesday, March 10	11:15 AM
SVT Associates, Incorporated	0930710	Amir	Dabiran	STTR Phase I: Epitaxial nanostructured AlGaN for high efficiency UV emitters	Ben Schrag	Wednesday, March 10	2:45 PM
Syandus, Inc.	0945139	Douglas	Seifert	SBIR Phase I: An Immersive 3D Simulator to Experientially Learn Immunobiology as a Networked System	Ian Bennett	Wednesday, March 10	8:30 AM
Syberenity	0946083	Stephen	Bassett	SBIR Phase I: Online Support Network for Users with Dependencies	Murali Nair	Wednesday, March 10	11:30 AM
SyntheZyme LLC	0945059	Thavasi	Renga Thavasi	SBIR Phase I: Advanced Biopesticides from Yeast Produced Sophorolipids and Modified Analogs	Anthony Walters	Wednesday, March 10	2:30 PM
SyntroTek Corporation	0946086	Ross	Thomas	SBIR Phase I: Nanogel Stabilized Biocatalysts for Enabling Real-Time Biochemical Oxygen Demand Tests	Ruth Shuman	Wednesday, March 10	8:00 AM
T3 Scientific LLC	0944769	Chung-Yi	Tsai	SBIR Phase I: Sub-10 nm protective coating on high-temperature hydrogen purification membrane	Ben Schrag	Monday, March 8	3:30 PM
TeachTown, Inc.	0945993	Christina	Whalen	SBIR Phase I: Computer-assisted instructional program to teach functional life skills to students with language and cognitive disabilities	Ian Bennett	Wednesday, March 10	11:15 AM
Team Patent LLC	0946113	Rocky	Kahn	SBIR Phase I: Patent Figure Recognition	Errol Arkilic	Monday, March 8	3:30 PM
Technova Corporation	0944152	Anagi	Balachandra	SBIR Phase I: Elastomer matrix nanocomposites reinforced with pseudoelastic metal nanowires	Cheryl Albus	Wednesday, March 10	2:30 PM
Terrenew LLC	0945724	Thomas	Bourne	SBIR Phase I: Integration of Beneficial Microbes with Manure-based Media for Improved Plant Performance	Anthony Walters	Monday, March 8	2:00 PM
Tetramer Technologies, LLC	0944518	Earl	Wagener	SBIR Phase I: New Low-Cost Approaches to Energy-Efficient Enriched Oxygen From Air Using Unique High-Permeability Membranes	Ruth Shuman	Monday, March 8	2:45 PM
TetraVue, Inc.	0945402	Paul	Banks	SBIR Phase I: Novel 3D Measurement and Imaging System	Juan Figueroa	Wednesday, March 10	8:45 AM
The Athena Group Inc.	0945727	Elroy	Bolduc	SBIR Phase I: Green Engineering Magnet (GEM) Project	Ian Bennett	Wednesday, March 10	9:15 AM
The Athena Group Inc.	0945722	Michael	Lewis	SBIR Phase I: TriStar, An Algebraic High Performance Communications Signal Processor	Murali Nair	Wednesday, March 10	1:15 PM

**NATIONAL SCIENCE FOUNDATION MEETING SCHEDULE**

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The Mackinac Technology Center	0930299	John	Slagter	STTR Phase I: Nano-sphere Modified Fibers for Super Insulating Window Coverings	Josephine Yuen	Monday, March 8	2:30 PM
Thousand Eyes	0946179	Ricardo	Oliveira	SBIR Phase I: An Integrated Solution to Internet Route Hijacking	Errol Arkilic	Monday, March 8	3:45 PM
ThromboMetrix, Inc	0944944	Paul	Lingane	SBIR Phase I: Novel Optical Platform for Patient Self Monitoring of Coagulation in Whole Blood	Josephine Yuen	Wednesday, March 10	8:00 AM
Thule Group of Consultants Inc	0945486	William	Tooley	SBIR Phase I: On-Farm Algae Production for Livestock Feed	Anthony Walters	Monday, March 8	4:30 PM
TiSol, LLC	0944398	Justin	Ferranto	SBIR Phase I: Scalable fabrication of mesoporous thin-films for production of efficient dye-sensitized solar cells	Grace Wang	Wednesday, March 10	1:30 PM
Titan Optics & Engineering	0930301	Mark	Meisner	STTR Phase I: Spectrally Adaptive Photodetectors	Josephine Yuen	Monday, March 8	4:15 PM
Tokutek, Inc.	0945687	Bradley	Kuszmaul	SBIR Phase I: A Multithreaded Storage Engine using Highly-Concurrent Fractal Trees	Errol Arkilic	Wednesday, March 10	8:15 AM
Touchstone Research Laboratory LTD	0944387	Drew	Spradling	SBIR Phase I: Microalgae-based Biofuel Utilizing Zooplankton Lipid Assimilation	Anthony Walters	Monday, March 8	2:30 PM
TrafficDNA	0945248	Lewis	Girod	SBIR Phase I: Accurate and Scalable Traffic Estimation and Traffic-Aware Routing	Errol Arkilic	Wednesday, March 10	12:15 PM
Transparent Materials, LLC	0944440	Joseph	Bringley	SBIR Phase I: Innovations in Nanoscale Manufacturing: Assembly of Nanomaterial Components via Electrostatic Forces and Production of Composites for Bio-Medical Implants.	Ben Schrag	Monday, March 8	1:30 PM
Triune Systems	0944845	Ross	Teggatz	SBIR Phase I: Micro-mark data matrix	Cheryl Albus	Wednesday, March 10	9:15 AM
Tusaar Incorporated	0946074	Craig	Sprain	SBIR Phase I: Economical separation of heavy metals dissolved in acidic streams generated by industrial processes and mining operations	Anthony Walters	Wednesday, March 10	2:15 PM
UES, Inc.	0945814	Melanie	Tomczak	SBIR Phase I: Nanoparticle Sensor for Detection of E. coli in Real-time and Real-world Conditions	Anthony Walters	Monday, March 8	4:00 PM
Umpqua Research Company	0945944	James	Akse	SBIR Phase I: Heterogeneous Catalysts for Biodiesel Production in Microreactors	Ruth Shuman	Wednesday, March 10	9:30 AM
Uncopiers, Inc.	0945041	Sameer	Madanshetty	SBIR Phase I: Clean Tool: A unified approach to wafer cleaning	Cheryl Albus	Wednesday, March 10	9:45 AM
United Environment & Energy, LLC	0930629	Ben	Wen	STTR Phase I: Waste Cooking Oil and Fly Ash Based Bioasphalt	Josephine Yuen	Monday, March 8	2:00 PM
United Science LLC	0930087	Jon	Thompson	STTR Phase I: Chemical Sensors for In situ Monitoring of Collector Chemicals in Complex Copper Mine Effluents	Gregory Baxter	Wednesday, March 10	9:15 AM
UVCleaning Systems Inc. (Puralytics)	0945901	Tom	Hawkins	SBIR Phase I: Novel UV Photocatalytic Process for Removing MTBE from Water	Ruth Shuman	Monday, March 8	1:45 PM
Valencell Inc.	0945307	Steven	LeBoeuf	SBIR Phase I: Seamless mobile health monitoring platform using novel informatics-based methods	Murali Nair	Wednesday, March 10	8:45 AM
Value Innovation Inc	0946067	Richard	Lee	SBIR Phase I: Value Innovation Teaching Toolkit	Ian Bennett	Wednesday, March 10	9:30 AM
Vecna Technologies, Inc	0945411	Daniel	Theobald	SBIR Phase I: High Performance Hydraulic Actuation for Mobile Robots	Murali Nair	Wednesday, March 10	1:30 PM
Virginia nanoTech LLC	0930423	Jason	Ridley	STTR Phase I: Multifunctional Nanoparticle Assemblies for Optical Diagnosis and Treatment of Disease	Gregory Baxter	Monday, March 8	4:45 PM
Virkaz Technologies	0944407	Charles	Earl	SBIR Phase I: MediaCloud: Distributed Computing System for Online Rich Media Creation	Errol Arkilic	Monday, March 8	4:45 PM
Vision-1, LLC	0944952	Lois	Pannkuk	SBIR Phase I: Method and Means for Collecting and Analyzing Customer Service Performance Data	Errol Arkilic	Monday, March 8	2:00 PM
Visual Composites, LLC	0944982	Thomas	Briselden	SBIR Phase I: 3-D Printing of Fiber-Reinforced High-Temperature Ceramic Metal Composites	Cheryl Albus	Wednesday, March 10	9:00 AM
Visualize Technologies, Inc.	0945531	George	Rakuljic	SBIR Phase I: Wavefront Microscopy: A low-cost implementation of high-quality microscopic phase imaging for bioscience teaching and training	Ian Bennett	Monday, March 8	3:30 PM

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Vivic Networks LLC	0945547	Pavan	Chahal	SBIR Phase I: Towards the Next Generation Security Monitoring and Analysis Systems	Errol Arkilic	Wednesday, March 10	11:15 AM
Vivisimo, Inc.	0945040	Raul	Valdes-Perez	SBIR Phase I: Embedding Trend Discovery Within Search Engines	Errol Arkilic	Monday, March 8	1:00 PM
Waltham Technologies Inc	0944884	Theresa	O'Keefe	SBIR Phase I: Development of Low Cost Enzymatic Biodiesel Production from Wastewater	Ruth Shuman	Wednesday, March 10	9:45 AM
WiPower, Inc.	0945759	Ryan	Tseng	SBIR Phase I: Low Noise Loosely-Coupled Wireless Power Transfer System with Single Transistor Differential Drive	Murali Nair	Wednesday, March 10	8:00 AM
Wowiwe Instruction Co.	0945807	Otto	Borchert	SBIR Phase I: An Environmental Geology Game for Discovery-oriented Science and Mathematics Education	Ian Bennett	Monday, March 8	1:45 PM
Wright Materials Research Co.	0944827	Seng	Tan	SBIR Phase I: Synthesis of Pt-Cu/C Nanofibers for Catalytic Liquid-Phase Hydrogenation of Nitrate Solutions	Ruth Shuman	Wednesday, March 10	10:30 AM
Wyoming Silicon, LLC	0945983	Zachary	Gray	SBIR Phase I: Refrigeration Microvalve	Murali Nair	Monday, March 8	4:15 PM
Xidex Corporation	0930668	Vladimir	Mancevski	STTR Phase I: Carbon Nanotube Electrolytic Ultracapacitor	Josephine Yuen	Wednesday, March 10	11:00 AM
Xidex Corporation	0945206	Vladimir	Macevski	SBIR Phase I: Conductive Shielded Carbon Nanotube Probes	Ben Schrag	Wednesday, March 10	11:30 AM
XIMAX Technologies	0946030	Xiqun	Zhu	SBIR Phase I: Transparency Variable, Pixel Independent Wearable Screen For all-light Usable Mobile Image Communication Systems	Juan Figueroa	Wednesday, March 10	8:30 AM
Xintek, Inc.	0945287	Mei	Lu	SBIR Phase I: High-Performance Polymer Nanocomposites Containing Functionalized Few-Walled Carbon Nanotubes	Grace Wang	Monday, March 8	2:00 PM
X-Ray Optical Systems, Inc.	0944969	Ning	Gao	SBIR Phase I: Online Optic Enabled X-Ray Analyzer for Fuel Cell Manufacturing	Cheryl Albus	Wednesday, March 10	11:45 AM
XW, LLC	0945497	Oren	Eliezer	SBIR Phase I: Adaptive Filter Bank Modulation for Ubiquitous Landline-Based Broadband Access	Murali Nair	Wednesday, March 10	1:45 PM
Y-Carbon	0945566	Ranjan	Dash	SBIR Phase I: Development of Commercial Techniques for Large Scale Production of Tunable Nanoporous Carbons	Grace Wang	Monday, March 8	2:15 PM
Zyberwear Inc.	0944520	Oliver	Edwards	SBIR Phase I: Long-Wave Infrared Plasmonic Biosensor	Josephine Yuen	Wednesday, March 10	1:15 PM
Zymera Corporation	0930533	Sukanta	Bhattacharyya	STTR Phase I: Non-Toxic Nanoparticles for BRET-Based Molecular Imaging	Gregory Baxter	Wednesday, March 10	11:45 AM



## PHASE I COMMERCIALIZATION PLANNING PROGRAM [CP<sup>2</sup>]<sup>TM</sup>

Dawnbreaker is pleased to be working with you through the NSF CP<sup>2</sup> program. Since 2001 we have assisted over 1,200 NSF Phase I recipients through this program. Dawnbreaker employs a team of 63 talented individuals that conduct programmatic interventions on behalf of federal agencies and state municipalities. We are technology generalists and work with companies with widely diverse backgrounds including energy, materials, electronics, defense, biotech, information technologies, therapeutics and diagnostics. As the SBIR program has matured, expectations that the agencies have of small businesses relative to commercialization have changed. To address these evolving needs, we introduced updated program methodology and new program initiatives in August 2009. As in the past we will aid participants in the development of quality commercialization plans. However, increased emphasis will also be given to

- helping companies understand the competitive IP landscape into which their technology will eventually enter, and
- beginning to initiate necessary strategic relationships with potential partners, licensees and/or investors thereby setting the stage for successful participation in Phase IIB and success in Phase III

All NSF-funded Phase I SBIR and STTR recipients are eligible to participate in this Commercialization Planning Program at no cost to you.

Dawnbreaker's work with January 2010 NSF SBIR Phase I awardees begins in early February and continues until the time that you submit your Phase II proposal to NSF – either July 2010 or January 2011.

Our work with July 2009 NSF STTR Phase I awardees also begins in early February and continues until the time that you submit your Phase II proposal to NSF – either July 2010 or January 2011.

Our work continues with July 2009 NSF SBIR Phase I awardees that postponed their Phase II submission to NSF until July 2010.

## NSF Phase I Grantee Workshop Interactions

We look forward to continuing our interaction with you. During the Grantee Workshop, one-on-one meetings have been scheduled between representatives of your firm and the Dawnbreaker business acceleration manager assigned to work with you. Please stop by our table in the registration area if you have any questions regarding participation in the program, your meeting time and/or meeting location and we will be glad to assist you. The purpose of your one-on-one meeting is to finalize your market research needs and discuss activities related to participation in our Virtual Strategic Partner Introduction (VSP<sup>TM</sup>) Series. We are glad to have this opportunity to meet with you personally at the Grantee Workshop.

Carol Rabke, Ph.D.  
Program Manager, NSF CP<sup>2</sup>

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**PHASE I COMMERCIALIZATION PLANNING PROGRAM**

<b>Institution</b>	<b>Award #</b>	<b>PI First</b>	<b>PI Last</b>	<b>Title</b>	<b>Bus. Accel. Manager</b>	<b>Dawnbreaker Meeting Date</b>	<b>Dawnbreaker Meeting Time</b>
Advanced Materials & Devices, Inc.	0930398	Barkan	Kavlicoglu	STTR Phase I: Compressible Magnetorheological Fluids	Pete Hunt	Wednesday, March 10	9:00 AM
Advanced Photonic Crystals, LLC	0930035	Henry	Giesber	STTR Phase I: Ammonothermal Growth of Doped Aluminum Gallium Nitride Single Crystals for Energy Efficient Solid State Lighting and Tunable LED's	Carol Rabke	Wednesday, March 10	9:00 AM
Advanced Thermal Technologies	0930393	James	Connell	STTR Phase I: High Thermal Conductivity Carbon Fibers From Nanotextured Mesophase Pitch Precursors	Terry McMahon	Wednesday, March 10	12:00 PM
Advantageous Systems LLC	0930768	Tapan	Shah	STTR Phase I: Desalination Using Functionalized Magnetic Nanoparticles	Mitch Lairmore	Monday, March 8	3:30 PM
Agile Sciences Inc.	0930480	Stephen	McCall	STTR Phase I: Increasing the Efficiency of Membrane Filtration for Drinking Water Purification through the Incorporation of Novel Anti-Biofilm Small Molecules	Mitch Lairmore	Monday, March 8	1:30 PM
Agiltron Incorporated	0930619	Kuiyang	Jiang	STTR Phase I: Carbon Nanotube Dry Adhesives	Terry McMahon	Monday, March 8	Tuesday - Lunch
ALD Nanosolutions, LLC	0930734	John	Ferguson	STTR Phase I: Functionalized Nanocoatings for Filler Adhesion to Rubber Using Atomic Layer Deposition	Pete Hunt	Monday, March 8	4:00 PM
Allotropica Technologies	0930099	Yongchao	Si	STTR Phase I: Graphene-Platinum Composite for Hydrogen Fuel Cells	Mitch Lairmore	Monday, March 8	1:00 PM
AMEROM LLC	0930554	Ruxandra	Vidu	STTR Phase I: Fabrication of Low-Cost and High-Efficiency Thermoelectric Materials	Tallam Nguti	Monday, March 8	1:30 PM
Applied Nanofemto Technologies	0930486	Jarrold	Vaillancourt	STTR Phase I: Developing Coupled Quantum Dot Multi-Functional Materials for Optoelectronics Integrated Circuits (OEIC)	Steve Orth	Wednesday, March 10	10:30 AM
Applied Sciences, Inc.	0930573	David	Burton	STTR Phase I: Nanofluids for Improved Thermal Management	Terry McMahon	Wednesday, March 10	11:00 AM
AppliFlex LLC	0930594	Hee	Park	STTR Phase I: Cost-effective fabrication and patterning of transparent metal oxide nanostructures by solution-based laser processing technologies	Steve Orth	Wednesday, March 10	10:00 AM
Aspen Sciences, Inc (Banyan Environmental, Inc.)	0930303	Love	Sarin	STTR Phase I: Nanoselenium for Simultaneous Detection and Capture of Mercury Vapor in Fluorescent Lighting Technology	Todd Farrar	Wednesday, March 10	10:30 AM
Baker-Calling	0930630	Robert	Littrell	STTR Phase I: High Performance Piezoelectric MEMS Microphones	Pete Hunt	Monday, March 8	1:30 PM
Bijhem Scientific, Inc	0930708	Bijo	Mathew	STTR Phase I: Bio-templated nanomaterials for environmental remediation applications.	Sherry Hostetter	Wednesday, March 10	9:30 AM

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EY Technologies	0930437	Rathna	Perera	STTR Phase I: Co-extruded electroded fiber sensors and actuators	Carol Rabke	Wednesday, March 10	11:30 AM
Fibron Inc.	0930767	Christina	Baker	STTR Phase I: Polyaniline Nanofiber Urinary Tract Infection Biosensor-A Multi-Functional Bioresponsive Material	Rich Smerbeck	Wednesday, March 10	Tuesday - Lunch
Freight Pipeline Company	0930167	Jerry	Liu	STTR Phase I: Making Lightweight Building Products from Fly Ash	Tallam Nguti	Monday, March 8	4:30 PM
Gibbard Research and Development Corp.	0930649	Arthur	Kaufman	STTR Phase I: High-Performance, Non-Precious Metal Oxygen Reduction Catalysts	Mitch Lairmore	Wednesday, March 10	12:00 PM
Gratings, Incorporated	0930307	Saleem	Zaidi	STTR Phase I: High Efficiency Thin-film Photovoltaics on Low-cost Substrates by Layer Transfer	Steve Orth	Wednesday, March 10	9:30 AM
Hi-Z Technology Inc	0930756	Saeid	Ghamaty	STTR Phase I: Materials for Sustainability	Carol Rabke	Wednesday, March 10	12:30 PM
HYPRES, Inc.	0930489	Masoud	Radparvar	STTR Phase I: Novel Materials for a PicoCalorimeter Biological Application	Todd Farrar	Wednesday, March 10	9:30 AM
Illuminex Corp.	0929448	Youssef	Habib	STTR Phase I: Photovoltaic Fabric	Steve Orth	Monday, March 8	2:00 PM
Inframat Corp.	0930144	T. Danny	Xiao	STTR Phase I: Spray-On Nanostructured Metal Oxide Films for Efficient Solar Energy Conversion	Steve Orth	Wednesday, March 10	11:00 AM
Integrated Photonics, Inc.	0930525	Vincent	Fratello	STTR Phase I: Development of Materials for Optical Band Gaps in Magneto-Photonic Crystals for Switching and Biosensor Applications	Steve Orth	Monday, March 8	3:00 PM
LifeSciTech, LLC	0930603	Emily	Tarsis	STTR Phase I: ACC Synthesis - a way to create safer, efficacious and inexpensive Single Enantiomers	Rich Smerbeck	Monday, March 8	1:00 PM
Magnolia Optical Technologies Inc.	0930343	Ashok	Sood	STTR Phase I: Concentrator Photovoltaics with High-Refractive-Index Encapsulants	Carol Rabke	Wednesday, March 10	11:00 AM
Michigan Aerospace Corporation	0945388	Dominique	Fourquette	SBIR Phase I: A Ground-Based Sensor Array for Wake Vortex Detection	Steve Orth	Monday, March 8	2:30 PM
MicroGREEN Polymers, Inc.	0946152	Xiaoxi	Wang	SBIR Phase I: Continuous Production of Lightweight and Energy Efficient Solid-State Microcellular Panels from Recycled PET	Todd Farrar	Monday, March 8	1:30 PM
Micromechatronics Inc	0945613	Alfredo	Vazquez-Carazo	SBIR Phase I: Isolator with MEMS piezoelectric transformer	Bob Lockwood	Monday, March 8	3:30 PM
Micropyrectics Heaters Int'l LLC	0945439	G	Reddy	SBIR Phase I: Durable Nano-Coatings with MoSi2 for Antibacterial High Wear Use	Carol Rabke	Monday, March 8	2:00 PM
MIOX Corporation	0945851	Andrew	Boal	SBIR Phase I: Investigation of the use of Chlorine Based Oxidants for Removal of Natural Organic Matter using Advanced Oxidation Processes	Bob Lockwood	Monday, March 8	4:30 PM
Mirrorcle Technologies, Inc.	0945992	Veljko	Milanovic	SBIR Phase I: Real-time 3D Tracking and Position Measurement System Using Scanning MEMS Mirrors	Pete Hunt	Monday, March 8	1:00 PM
Mobile Power Solutions	0944420	Andrew	Tipton	SBIR Phase I: Improved Analysis of Li-ion Battery Safety and Performance Using Impedance Spectroscopy	Mitch Lairmore	Wednesday, March 10	11:00 AM
Modumetal, Inc.	0944751	John	Whitaker	SBIR Phase I: Thick Thermal Barrier Coatings	Terry McMahon	Wednesday, March 10	10:00 AM
Molycorp Minerals LLC	0945636	Charles	Whitehead	SBIR Phase I: Inorganic Sorbent Media for Removing a Broad Spectrum of Waterborne Contaminants	Mitch Lairmore	Wednesday, March 10	9:30 AM

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Mound Laser & Photonics Center, Inc.	0945458	Carl	Druffner	SBIR Phase I: Laser Machining of Terahertz Waveguide & Microscopy Components	Phillip Miller	Monday, March 8	2:30 PM
Mound Laser & Photonics Center, Inc.	0945474	Carl	Druffner	SBIR Phase I: IDT Sensors for Monitoring Wind Energy Infrastructure	Phillip Miller	Monday, March 8	3:00 PM
MoveableCode inc.	0945691	Nicholas	Napp	SBIR Phase I: Realtime Markerless Scene Tracking on a Smartphone	Alex Stoyen	Monday, March 8	4:30 PM
Moxtronics Inc.	0943788	Yungryel	Ryu	SBIR Phase I: BeZnO UV Detector	Carol Rabke	Wednesday, March 10	11:30 AM
MTECH Laboratories, LLC	0945553	Eduard	Mueller	SBIR Phase I: High-Efficiency Energy Distribution and Conversion System for Buildings	Todd Farrar	Wednesday, March 10	11:00 AM
Nano Engineered Materials corporation	0945004	HanGi	Chae	SBIR Phase I: Low Density Carbon Fibers Based on Gel Spun Polyacrylonitrile/Carbon Nanotube	Pete Hunt	Wednesday, March 10	10:30 AM
Nano Liquid Devices, Inc	0946111	Youngsoh	Park	SBIR Phase I: Low Cost, High Bandwidth RF Switch	Tallam Nguti	Monday, March 8	2:00 PM
Nano3D Biosciences, Inc.	0945954	Glauco	Souza	SBIR Phase I: In Vitro 3D Lung Tissue Model for Drug Discovery and Toxicity Screening	Rich Smerbeck	Monday, March 8	3:00 PM
NanoAqueonics	0944927	Bakul	Dave	SBIR Phase I: A Sustainable Laundry Solution: Organosilane Based Fabric Conditioners for Reducing the Environmental Footprint and Energy Consumption In Laundry Systems	Todd Farrar	Wednesday, March 10	8:30 AM
NanOasis	0946162	Jason	Holt	SBIR Phase I: Nanocomposite Membranes for Solvent-Resistant Nanofiltration and Reverse Osmosis	Mitch Lairmore	Monday, March 8	Tuesday - Lunch
nanoComposix, Inc.	0945928	Richard	Baldwin	SBIR Phase I: Continuous Flow Synthesis of Metal Nanoparticles	Pete Hunt	Wednesday, March 10	8:30 AM
Nanorods, LLC	0945472	Linjie	Li	SBIR Phase I: Multi-wavelength Infrared thermal Detectors and Imagers	Pete Hunt	Monday, March 8	3:00 PM
Nanosolar, Inc.	0945584	Matthew	Robinson	SBIR Phase I: Durable Anti-Reflective Nanostructured Coatings for Photovoltaic Devices	Carol Rabke	Wednesday, March 10	12:30 PM
NanoSonix, Inc	0945959	Arvind	Srivastava	SBIR Phase I: Development of Scanning Near Field Ultrasound Holography with Integrated Electronic Detection for Sub-Surface Nanomechanical Imaging	Bob Lockwood	Monday, March 8	2:30 PM
Nanospectra Biosciences, Inc.	0945088	Glenn	Goodrich	SBIR Phase I: Nanoparticle-Based Radio-Imaging and Ablation of Lung Cancer	Rich Smerbeck	Monday, March 8	4:00 PM
Nanotek Instruments, Inc.	0944784	Jason	Shi	SBIR Phase I: Ultra High Capacity and High Rate Anodes for Next Generation Lithium-Ion Batteries	Carol Rabke	Wednesday, March 10	11:30 AM
Nanotrons Corporation	0945191	Je Kyun	Lee	SBIR Phase I: High Energy Density Nanodielectrics for Commercial Pulse Power Applications	Terry McMahan	Monday, March 8	Tuesday - Lunch
NaugaNeedles LLC	0944435	Mehdi	Yazdanpanah	SBIR Phase I: Batch Fabrication of High Aspect Ratio Metallic AFM Probes	Carol Rabke	Wednesday, March 10	10:00 AM
NEI Corporation	0945199	Ganesh	Skandan	SBIR Phase I: Enhanced Sludge Dewatering with Improved Odor Control	Mitch Lairmore	Wednesday, March 10	10:00 AM
New England Rare Reagents	0945155	Robert	Lawton	SBIR Phase I: Development of Soluble Analyte Amplification for PBP2a Detection	Carol VanBuren	Monday, March 8	4:30 PM
Next Generation Technology SCRD Inc.	0945799	Namita	Deo	SBIR Phase I: New Plant Based Benign Actives for Sun screen and Cosmetics Applications	Rich Smerbeck	Monday, March 8	3:30 PM
NGIMAT CO.	0945637	Yongdong	Jiang	SBIR Phase I: Advanced Dielectric Nanocomposites	Steve Orth	Wednesday, March 10	8:30 AM

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Northern Technologies International Corporation	0945200	Shilpa	Manjure	SBIR Phase I: BioBased Coatings for Corrosion Protection	Steve Orth	Wednesday, March 10	8:00 AM
Novabone Products, LLC	0945068	David	Gaisser	SBIR Phase I: Novel Ceria Nano-particle Containing Bioactive Scaffolds for Enhanced Bone Regeneration	Rich Smerbeck	Wednesday, March 10	9:00 AM
NovaScan LLC	0944454	William	Gregory	SBIR Phase I: Electrical Property Detection of Residual Cancer in the Surgery Suite	Carol VanBuren	Monday, March 8	1:00 PM
NP Photonics LLC	0946002	Jianfeng	Wu	SBIR Phase I: Ultra Compact Passive Mode-Locked All-Fiber 2 Micron Fiber Laser	Steve Orth	Monday, March 8	1:30 PM
OMAX Corporation	0944239	Peter	Liu	SBIR Phase I: Development of Subminiature Abrasive-Waterjet Nozzles toward Micromachining	Phillip Miller	Monday, March 8	3:30 PM
Omega Optics, Inc.	0945688	Swapnajit	Chakravarty	SBIR Phase I: Photonic Crystal Slot Waveguide Miniature Spectrometer for In-Situ Groundwater Contaminant and Greenhouse Gas Detection and Identification	Mitch Lairmore	Wednesday, March 10	9:00 AM
Omic Biosystems, Inc.	0945037	Feng	Tao	SBIR Phase I: New ABPP Probes and Sample Preparation Methods for Biomarker Discoveries	Rich Smerbeck	Monday, March 8	2:30 PM
Omniprobe	0945896	Cheryl	Hartfield	SBIR Phase I: Instrumentation for In-situ CLEM (Correlated Light and Electron Microscopy)	Terry McMahon	Wednesday, March 10	9:30 AM
OnMaterials, LLC	0944742	John	Freim	SBIR Phase I: Multi-functional Nanoamendments for Enhanced Anaerobic Bioremediation	Carol Rabke	Wednesday, March 10	9:30 AM
OnTo Technologies	0946117	Steven	Sloop	SBIR Phase I: Automated Disassembly	Don Navor	Monday, March 8	Off-Site
Orthogonal, Inc	0945700	John	DeFranco	SBIR Phase I: Enabling large-scale manufacturing of organic electronic devices using photolithography	Bob Lockwood	Wednesday, March 10	11:30 AM
Percipience Group, Inc.	0945592	Blair	Urish	SBIR Phase I: Algae Trickle-Screen Test	Terry McMahon	Wednesday, March 10	10:30 AM
Peregrine Power LLC	0944894	Dallas	Marckx	SBIR Phase I: Universal Utility/Customer Interface	Sherry Hostetter	Wednesday, March 10	9:00 AM
Perpetua Power Source Technologies, Inc.	0946142	Paul	McClelland	SBIR Phase I: Flexible Thin-Film Thermoelectric Wearable Energy Harvester	Sherry Hostetter	Monday, March 8	4:00 PM
Phage Biocontrol, LLC	0945913	Neil	Summer	SBIR Phase I: Phage control of filamentous bacteria - A novel focused antimicrobial approach to counter microbial problems in municipal wastewater systems	Mitch Lairmore	Wednesday, March 10	11:30 AM
Photon Energy Technology	0944979	Rajeev	Nair	SBIR Phase I: Nanotechnology - Nanotexturing of Stents for Improved Performance	Carol Rabke	Wednesday, March 10	2:00 PM
Photon Machines, Inc.	0945297	Steven	Buckley	SBIR Phase I: Design and Development of a Comprehensive Instrument for Measurement of Aerosol Size and Elemental Composition	Bob Lockwood	Wednesday, March 10	8:30 AM
Phthisis Diagnostics, LLC	0945221	Crystal	Icenhour	SBIR Phase I: Standardizing Microbial Water Quality Monitoring Using Synthetic Biology	Mitch Lairmore	Wednesday, March 10	8:30 AM
PhylloTech Inc.	0944433	Ryan	Shepherd	SBIR Phase I: A protein-based biofungicide for agricultural use	Carol VanBuren	Monday, March 8	3:00 PM

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Pine Hill Labs, Inc.	0946015	Gerald	Chu	SBIR Phase I: Inferring Neural State with a Home-Based Robotic System	Tallam Nguti	Monday, March 8	3:00 PM
Pixelligent Technologies LLC	0945305	Zehra	Gonen Williams	SBIR Phase I: Resist for DUV Lithography	Tallam Nguti	Monday, March 8	2:30 PM
Plasma Controls, LLC	0945996	Cody	Farnell	SBIR Phase I: Plasma Enhanced Chemical Vapor Deposition of Hydroxyapatite Coatings	Pete Hunt	Monday, March 8	3:30 PM
Plextronics, Inc.	0945604	Shawn	Williams	SBIR Phase I: Macrocycle-Enhanced Nanotechnology Organic Photovoltaic Solutions	Sherry Hostetter	Monday, March 8	3:00 PM
Plymouth Grating Laboratory, Inc.	0945432	Bruce	MacLeod	SBIR Phase I: Double Patterning using Optical Lithography for Fabricating 50 nm Nanostructures on Meter Scale Substrates	Carol Rabke	Monday, March 8	2:00 PM
Polnox Corporation	0945017	Ashok	Cholli	SBIR Phase I: Novel Antioxidants to Improve Thermo-Oxidative Stability of Biolubricants and Biodiesel	Tallam Nguti	Monday, March 8	3:30 PM
Porifera inc.	0946090	Olgica	Bakajin	SBIR Phase I: Ultra Permeable Carbon Nanotube Membranes for Forward Osmosis	Mitch Lairmore	Wednesday, March 10	Tuesday PM
PoroGen LLC	0944820	Yong	Ding	SBIR Phase I: Novel Polymeric Membrane for Hydrocarbon Separation	Pete Hunt	Wednesday, March 10	8:00 AM
Potomac Photonics Inc	0945277	Clad	Christensen	SBIR Phase I: Energy Storage, Electrical Distribution, and Packaging for Wireless Sensor Networks	Todd Farrar	Monday, March 8	3:30 PM
Power Tagging Technologies, Inc.	0944859	Steven	Berens	SBIR Phase I: Power Tagging Grid Intelligence for 21st Century Energy Applications	Carol Rabke	Wednesday, March 10	11:30 AM
Prendismo, LLC	0944258	Bruce	Ganem	SBIR Phase I: Entrepreneurship Education Using Interactive Media	Todd Farrar	Wednesday, March 10	8:00 AM
Prometheus Research, LLC	0944460	Leonid	Rozenblit	SBIR Phase I: Data Discovery Tool	Lyn Barnett	Wednesday, March 10	11:00 AM
Protein Genomics	0945065	Burt	Ensley	SBIR Phase I: Construction of Vascular Structures with Human Tropoelastin	Rich Smerbeck	Monday, March 8	1:30 PM
Quansor Corporation	0944476	John	Merrill	SBIR Phase I: Real-time Monitor to Detect Waterborne Contaminants	Pete Hunt	Wednesday, March 10	10:00 AM
QuantLogic Corporation	0945850	Deyang	Hou	SBIR Phase I: Developing An Unique Variable Orifice Fuel Injector to Enable Advanced Mixed-Mode Combustion	Mitch Lairmore	Monday, March 8	3:00 PM
QuantTera	0946000	Matt	Kim	SBIR Phase I: Ultra Low Power InAsN Semiconductor Transistors	Steve Orth	Wednesday, March 10	11:30 AM
Quantum Applied Science & Research, Inc.	0945118	Konstantine	Ermolaev	SBIR Phase I: Reduced Noise Bioelectrode for Improved Detection and Imaging	Bob Lockwood	Monday, March 8	4:00 PM
RadiaBeam Technologies, LLC	0946169	Xiaodong	Ding	SBIR Phase I: Online, Virtual Classroom Environment for Science Education	Tallam Nguti	Monday, March 8	1:00 PM
Reveal Design Automation, Inc.	0945757	Zaher	Andraus	SBIR Phase I: Scalable Formal Verification of Digital Integrated Circuits	Bob Lockwood	Wednesday, March 10	12:30 PM
Rocket Technology Labs, Inc.	0944544	Jonathan	Rosenberg	SBIR Phase I: Unified Social Inbox	Bob Lockwood	Monday, March 8	2:00 PM
Scientific Fishery Systems, Inc	0944737	Patrick	Simpson	SBIR Phase I: Autonomous Underwater Animal Tracker	Todd Farrar	Monday, March 8	3:00 PM

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Secure Banking Solutions	0945830	Erik	Osterkamp	SBIR Phase I: Information Risk Management System for Small and Medium-Sized Financial Institutions	Lyn Barnett	Wednesday, March 10	8:00 AM
Seftec	0944559	William	Seffens	SBIR Phase I: Student Assessment from Mobility Analysis in Virtual World Learning	Phillip Miller	Monday, March 8	4:00 PM
Sensor Electronic Technology, Inc.	0945304	Max	Shatalov	SBIR Phase I: Development of UV-B SLED and LD	Mitch Lairmore	Monday, March 8	2:00 PM
Sensys Networks, Inc.	0945919	Robert	Kavaler	SBIR Phase I: Wireless Weight in-Motion	Carol Rabke	Wednesday, March 10	12:30 PM
SimBiotic Software	0944281	Eli	Meir	SBIR Phase I: CytoBeaker: Teaching cell biology using simulated experiments	Sherry Hostetter	Monday, March 8	2:00 PM
SimBiotic Software	0944938	Joel	Abraham	SBIR Phase I: Using Simulations for Large-Scale Assessment of Higher-Order Thinking Skills	Sherry Hostetter	Monday, March 8	2:30 PM
Smart Software Inc	0944261	Nelson	Hartunian	SBIR Phase I: Cluster-Based Forecasting of Intermittent Demand for Service and Spare Parts	Alex Stoyen	Wednesday, March 10	3:30 PM
Solarity	0945175	Travis	Benanti	SBIR Phase I: Lateral Collection Polycrystalline Silicon Solar Cells	Sherry Hostetter	Wednesday, March 10	10:00 AM
SparkSense, Inc.	0944235	Barry	Cronin	SBIR Phase I: SparkSense: Encouraging Tweens to Explore STEM Content Online	Phillip Miller	Monday, March 8	4:30 PM
Spectradyn Technologies LLC	0944831	Nikolay	Sveshnikov	SBIR Phase I: Hydropneumatic accumulator with a compressible regenerator	Pete Hunt	Monday, March 8	2:30 PM
Spectral MD Inc	0944376	Jose	Melendez	SBIR Phase I: 4-Dimensional Optical Tissue Imaging by Variable Digital Illumination	Carol VanBuren	Monday, March 8	2:30 PM
Split Engineering LLC	0945294	Donald	Kraemer	SBIR Phase I: The Development of a Cost-Effective LIDAR-Based System for Geo-Infrastructure Monitoring and Management	Pete Hunt	Wednesday, March 10	11:00 AM
Stemina Biomarker Discovery, inc.	0945105	Paul	West	SBIR Phase I: Metabolomics of Human Embryonic Stem Cells to Predict Teratogenicity: An Alternative Developmental Toxicity Model	Rich Smerbeck	Wednesday, March 10	8:30 AM
Sterling Biomedical, LLC	0944025	Michael	Szycher	SBIR Phase I: A Novel Antimicrobial Polymer for Medical Devices	Rich Smerbeck	Wednesday, March 10	8:00 AM
Sterling International, Inc.	0944219	Qing-He	Zhang	SBIR Phase I: Beneficial Insect Attractants and Dispensers for Enhanced Insect Biological Control in Organic Food Production	Carol Rabke	Wednesday, March 10	11:30 AM
Stone Ridge Technology	0945666	Vincent	Natoli	SBIR Phase I: Bioinformatic FPGA Appliance	Terry McMahon	Wednesday, March 10	8:00 AM
Stratatech Corporation	0945891	Kenneth	Gratz	SBIR Phase I: An Innovative Full-Thickness Human Skin Model for Increased Throughput Screening in Drug Discovery	Carol VanBuren	Monday, March 8	3:30 PM
Sustainable Innovations, LLC	0944957	Trent	Molter	SBIR Phase I: Carbon Neutral Renewable Liquid Hydrocarbon Fuel Production System	Bob Lockwood	Wednesday, March 10	10:30 AM

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Syndus, Inc.	0945139	Douglas	Seifert	SBIR Phase I: An Immersive 3D Simulator to Experientially Learn Immunobiology as a Networked System	Bob Lockwood	Wednesday, March 10	9:00 AM
Syberenity	0946083	Stephen	Bassett	SBIR Phase I: Online Support Network for Users with Dependencies	Bob Lockwood	Wednesday, March 10	12:00 PM
SyntheZyme LLC	0945059	Thavasi	Renga Thavasi	SBIR Phase I: Advanced Biopesticides from Yeast Produced Sophorolipids and Modified Analogs	Carol Rabke	Monday, March 8	12:30 PM
SyntroTek Corporation	0946086	Ross	Thomas	SBIR Phase I: Nanogel Stabilized Biocatalysts for Enabling Real-Time Biochemical Oxygen Demand Tests	Pete Hunt	Wednesday, March 10	9:30 AM
T3 Scientific LLC	0944769	Chung-Yi	Tsai	SBIR Phase I: Sub-10 nm protective coating on high-temperature hydrogen purification membrane	Pete Hunt	Monday, March 8	2:00 PM
TeachTown, Inc.	0945993	Christina	Whalen	SBIR Phase I: Computer-assisted instructional program to teach functional life skills to students with language and cognitive disabilities	Bob Lockwood	Wednesday, March 10	10:00 AM
Team Patent LLC	0946113	Rocky	Kahn	SBIR Phase I: Patent Figure Recognition	Tallam Nguti	Monday, March 8	4:00 PM
Technova Corporation	0944152	Anagi	Balachandra	SBIR Phase I: Elastomer matrix nanocomposites reinforced with pseudoelastic metal nanowires	Todd Farrar	Wednesday, March 10	9:00 AM
Terrenew LLC	0945724	Thomas	Bourne	SBIR Phase I: Integration of Beneficial Microbes with Manure-based Media for Improved Plant Performance	Bob Lockwood	Monday, March 8	5:00 PM
Tetramer Technologies, LLC	0944518	Earl	Wagener	SBIR Phase I: New Low-Cost Approaches to Energy-Efficient Enriched Oxygen From Air Using Unique High-Permeability Membranes	Todd Farrar	Monday, March 8	2:00 PM
TetraVue, Inc.	0945402	Paul	Banks	SBIR Phase I: Novel 3D Measurement and Imaging System	Carol Rabke	Wednesday, March 10	8:00 AM
The Athena Group Inc.	0945727	Elroy	Bolduc	SBIR Phase I: Green Engineering Magnet (GEM) Project	Lyn Barnett	Wednesday, March 10	10:00 AM
The Athena Group Inc.	0945722	Michael	Lewis	SBIR Phase I: TriStar, An Algebraic High Performance Communications Signal Processor	Lyn Barnett	Wednesday, March 10	10:30 AM
Thousand Eyes	0946179	Ricardo	Oliveira	SBIR Phase I: An Integrated Solution to Internet Route Hijacking	Alex Stoyen	Monday, March 8	3:00 PM
ThromboMetrix, Inc	0944944	Paul	Lingane	SBIR Phase I: Novel Optical Platform for Patient Self Monitoring of Coagulation in Whole Blood	Lyn Barnett	Wednesday, March 10	8:30 AM
Thule Group of Consultants Inc	0945486	William	Tooley	SBIR Phase I: On-Farm Algae Production for Livestock Feed	Bob Lockwood	Monday, March 8	3:00 PM
TiSol, LLC	0944398	Justin	Ferranto	SBIR Phase I: Scalable fabrication of mesoporous thin-films for production of efficient dye-sensitized solar cells	Sherry Hostetter	Wednesday, March 10	8:00 AM
Tokutek, Inc.	0945687	Bradley	Kuszmaul	SBIR Phase I: A Multithreaded Storage Engine using Highly-Concurrent Fractal Trees	Alex Stoyen	Wednesday, March 10	11:30 AM

**DAWNBREAKER MEETING SCHEDULE**

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<b>Institution</b>	<b>Award #</b>	<b>PI First</b>	<b>PI Last</b>	<b>Title</b>	<b>Bus. Accel. Manager</b>	<b>Dawnbreaker Meeting Date</b>	<b>Dawnbreaker Meeting Time</b>
Touchstone Research Laboratory LTD	0944387	Drew	Spradling	SBIR Phase I: Microalgae-based Biofuel Utilizing Zooplankton Lipid Assimilation	Carol VanBuren	Monday, March 8	1:30 PM
TrafficDNA	0945248	Scott	Jarr	SBIR Phase I: Accurate and Scalable Traffic Estimation and Traffic-Aware Routing	Alex Stoyen	Wednesday, March 10	11:00 AM
Transparent Materials, LLC	0944440	Joseph	Bringley	SBIR Phase I: Innovations in Nanoscale Manufacturing: Assembly of Nanomaterial Components via Electrostatic Forces and Production of Composites for Bio-Medical Implants.	Rich Smerbeck	Monday, March 8	2:00 PM
Triune Systems	0944845	Ross	Teggatz	SBIR Phase I: Micro-mark data matrix	Terry McMahon	Wednesday, March 10	8:30 AM
Tusaar Incorporated	0946074	Craig	Sprain	SBIR Phase I: Economical separation of heavy metals dissolved in acidic streams generated by industrial processes and mining operations	Carol Rabke	Wednesday, March 10	12:30 PM
UES, Inc.	0945814	Melanie	Tomczak	SBIR Phase I: Nanoparticle Sensor for Detection of E. coli in Real-time and Real-world Conditions	Bob Lockwood	Monday, March 8	1:30 PM
Umpqua Research Company	0945944	James	Akse	SBIR Phase I: Heterogeneous Catalysts for Biodiesel Production in Microreactors	Mitch Lairmore	Wednesday, March 10	8:00 AM
Uncopiers, Inc.	0945041	Sameer	Madanshetty	SBIR Phase I: Clean Tool: A unified approach to wafer cleaning	Carol Rabke	Wednesday, March 10	8:30 AM
UVCleaning Systems Inc. (Puralytics)	0945901	Tom	Hawkins	SBIR Phase I: Novel UV Photocatalytic Process for Removing MTBE from Water	Mitch Lairmore	Monday, March 8	2:30 PM
Valencell Inc.	0945307	Steven	LeBoeuf	SBIR Phase I: Seamless mobile health monitoring platform using novel informatics-based methods	Lyn Barnett	Wednesday, March 10	11:30 AM
Value Innovation Inc	0946067	Richard	Lee	SBIR Phase I: Value Innovation Teaching Toolkit	Todd Farrar	Wednesday, March 10	10:00 AM
Vecna Technologies, Inc	0945411	Daniel	Theobald	SBIR Phase I: High Performance Hydraulic Actuation for Mobile Robots	Terry McMahon	Wednesday, March 10	11:30 AM
Virkaz Technologies	0944407	Charles	Earl	SBIR Phase I: MediaCloud: Distributed Computing System for Online Rich Media Creation	Alex Stoyen	Monday, March 8	4:00 PM
Vision-1, LLC	0944952	Lois	Pannkuk	SBIR Phase I: Method and Means for Collecting and Analyzing Customer Service Performance Data	Lyn Barnett	Monday, March 8	Tuesday PM
Visual Composites, LLC	0944982	Thomas	Briselden	SBIR Phase I: 3-D Printing of Fiber-Reinforced High-Temperature Ceramic Metal Composites	Bob Lockwood	Wednesday, March 10	8:00 AM
Visualize Technologies, Inc.	0945531	Emily	McDowell	SBIR Phase I: Wavefront Microscopy: A low-cost implementation of high-quality microscopic phase imaging for bioscience teaching and training	Todd Farrar	Monday, March 8	2:30 PM
Vivic Networks LLC	0945547	Hery	William	SBIR Phase I: Towards the Next Generation Security Monitoring and Analysis Systems	Alex Stoyen	Wednesday, March 10	10:30 AM
Vivisimo, Inc.	0945040	Raul	Valdes-Perez	SBIR Phase I: Embedding Trend Discovery Within Search Engines	Alex Stoyen	Monday, March 8	1:30 PM

**DAWNBREAKER MEETING SCHEDULE**

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<b>Institution</b>	<b>Award #</b>	<b>PI First</b>	<b>PI Last</b>	<b>Title</b>	<b>Bus. Accel. Manager</b>	<b>Dawnbreaker Meeting Date</b>	<b>Dawnbreaker Meeting Time</b>
Waltham Technologies Inc	0944884	Theresa	O'Keefe	SBIR Phase I: Development of Low Cost Enzymatic Biodiesel Production from Wastewater	Terry McMahon	Wednesday, March 10	9:00 AM
WiPower, Inc.	0945759	Ryan	Tseng	SBIR Phase I: Low Noise Loosely-Coupled Wireless Power Transfer System with Single Transistor Differential Drive	Sherry Hostetter	Wednesday, March 10	8:30 AM
Wowiwe Instruction Co.	0945807	Otto	Borchert	SBIR Phase I: An Environmental Geology Game for Discovery-oriented Science and Mathematics Education	Sherry Hostetter	Monday, March 8	3:30 PM
Wright Materials Research Co.	0944827	Seng	Tan	SBIR Phase I: Synthesis of Pt-Cu/C Nanofibers for Catalytic Liquid-Phase Hydrogenation of Nitrate Solutions	Bob Lockwood	Wednesday, March 10	9:30 AM
Wyoming Silicon, LLC	0945983	Zachary	Gray	SBIR Phase I: Refrigeration Microvalve	Carol Rabke	Monday, March 8	3:30 PM
Xidex Corporation	0945206	Vladimir	Macevski	SBIR Phase I: Conductive Shielded Carbon Nanotube Probes	Carol Rabke	Wednesday, March 10	10:30 AM
XIMAX Technologies	0946030	Xiqun	Zhu	SBIR Phase I: Transparency Variable, Pixel Independent Wearable Screen For all-light Usable Mobile Image Communication Systems	Lyn Barnett	Wednesday, March 10	9:00 AM
Xintek, Inc.	0945287	Mei	Lu	SBIR Phase I: High-Performance Polymer Nanocomposites Containing Functionalized Few-Walled Carbon Nanotubes	Phillip Miller	Monday, March 8	1:00 PM
X-Ray Optical Systems, Inc.	0944969	Ning	Gao	SBIR Phase I: Online Optic Enabled X-Ray Analyzer for Fuel Cell Manufacturing	Bob Lockwood	Wednesday, March 10	11:00 AM
XW, LLC	0945497	Oren	Eliezer	SBIR Phase I: Adaptive Filter Bank Modulation for Ubiquitous Landline-Based Broadband Access	Lyn Barnett	Wednesday, March 10	9:30 AM
Y-Carbon	0945566	Ranjan	Dash	SBIR Phase I: Development of Commercial Techniques for Large Scale Production of Tunable Nanoporous Carbons	Phillip Miller	Monday, March 8	1:30 PM
Zaiput Technologies LLC	0944910	Andrea	Adamo	SBIR Phase I: High Throughput Microfluidic Cell Injection for Cell Reprogramming	Carol Rabke	Wednesday, March 10	12:30 PM
Zyberwear Inc.	0944520	Oliver	Edwards	SBIR Phase I: Long-Wave Infrared Plasmonic Biosensor	Pete Hunt	Wednesday, March 10	11:30 AM

**DAWNBREAKER MEETING SCHEDULE**



CONGRATULATIONS on your SBIR Phase I grant! Larta Institute's NSF-CAP1 is designed to assist you prepare a state of the art, credible, and complete Commercialization Plan that fully addresses all the topic areas identified by NSF as vital to SBIR Phase II reviews. The NSF-CAP1 will help position your company as a commercially-viable enterprise.

## Principal Advisors (PA) and Domain Experts

We will provide you with a PA who is a leader in commercialization with experience building technology companies as well as securing funding and partners. We also make available domain experts ready to address your challenges in areas such as Finance, Marketing, Human Resources, Intellectual Property and other fields of business management.

## Informative Webinars and Networking

You will have the opportunity to participate in our interactive webinars that will help you to face topics related to the many issues startup companies such as your own face. These webinars will be hosted by key representatives of the Larta network from top firms worldwide. Additionally, we will introduce to you our unmatched global networking of industry advisors with the purpose of developing strategic alliances and obtaining actionable feedback.

## One-on-One Meetings

Larta Institute will briefly meet with representatives from each of its assigned SBIR and STTR companies.

For specific information on the date, time and location for your meeting, please see the detailed one-on-one meeting schedule available in this booklet.

Our meetings will take place:

- Monday, March 8th  
From 1:00pm to 5:00pm  
Regency B Room
- Wednesday, March 10th  
From 8:00am to 2:00pm  
Potomac 1/2 Room

Please visit our table in the registration area if you have any questions.

# LARTA INSTITUTE

Cleantech - Life Sciences - Advanced Materials - Agritech - IT/Electronics

At Larta, we pursue technology commercialization with imagination. We've built a robust network of experts and partners that enable us to wrestle with market realities every day for the benefit of our customers. For 16 years, we've helped to create a solid footing for innovations emerging from around the world.

## Our Services

### Technology Commercialization

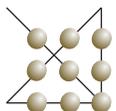
Federal Agencies, leading R&D centers/institutes, and regional governments engage Larta to accelerate the market readiness of their grantees/innovators and connect them to a world-class network.

Clients include: NSF - USDA - NIH - NIST - DARPA

### Global Bridge™

Global Bridge programs assist regional economies to drive enterprise development. We provide entrepreneurs from around the world access to our network.

Clients include: Malaysia - Canada - Brazil  
Korea - Russia - Israel



### Technology Transfer

Under several sponsored initiatives, Larta Institute works directly with university researchers and emerging entrepreneurs, helping to nurture their business strategy and approach to the marketplace.

Supporters include: Kauffman - NSF/PFI

### Innovation Pipeline Sourcing

Larta's Commercialization, Global Bridge and Technology Transfer programs provide our corporate partners with access to global innovation pipelines.

Clients include: DOW - J&J - Boeing  
Pfizer - Genzyme

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# NSF CAP 1

SBIR/STTR Phase I - Commercialization Assistance Program



Institution	Award #	PI First	PI Last	Title	Larta Program Manager	Larta Meeting Date	Larta Meeting Time
4Wind Science and Engineering, LLC	0945253	Cattien	Nguyen	SBIR Phase I: High Throughput Nanoscale Patterning with an Array of Carbon Nanotube Cold Field Emission Guns for Electron Beam Lithography	Joel Balbien	Wednesday, March 10	1:30 PM
A2 Technologies, LLC	0944892	Steven	Donahue	SBIR Phase I: Portable, Miniaturized Fourier Transform Infrared Spectrometer for Analysis of Inaccessible, Complex Surfaces	John Vassiliades	Wednesday, March 10	11:00 AM
ACTA LLC	0944681	Edward	Clancy	SBIR Phase I: Improving Energy Efficiency by Using Nanofluids in Vapor Compression Systems	Rohit Shukla	Monday, March 8	3:45 PM
AcuDisplay, Inc.	0945972	Farshid	Arman	SBIR Phase I: High-Definition Pico-projector Display Engine Based on Lasers and Scanning MEMS Mirror	Constanza Pachon	Monday, March 8	2:30 PM
Adaptive Communications Research Inc.	0946027	Garret	Okamoto	SBIR Phase I: Reconfigurable Sparse Array Smart Antenna System via Multi-Robot Control	Rohit Shukla	Monday, March 8	2:00 PM
Adherent Technologies, Inc.	0945781	Jan	Gosau	SBIR Phase I: Catalytic Suppressor System for Reducing Diesel Emissions	Joel Balbien	Wednesday, March 10	1:45 PM
Advanced Diamond Technologies	0945935	John	Carlisle	SBIR Phase I: Low-cost Long-life Diamond Electrodes for Wastewater Treatment using Advanced Electrochemical Oxidation	Rohit Shukla	Wednesday, March 10	9:15 AM
Advanced Photonic Crystals, LLC	0945282	Henry	Giesber	SBIR Phase I: Hydrothermal Growth of Potassium Beryllium Fluoroborate (KBBF) for deep UV Nonlinear Optical Applications.	Joel Balbien	Wednesday, March 10	9:30 AM
Advantageous Systems LLC	0946115	Adam	Stein	SBIR Phase I: Treatment of Perchlorate Contaminated Water Using Surface Engineered Super Paramagnetic Iron Oxide Nanoparticles	Carlos Gutierrez	Monday, March 8	2:15 PM
Aerodyne Research Inc	0945019	Andrew	Freedman	SBIR Phase I: Real Time Anesthesia Monitor	John Vassiliades	Wednesday, March 10	9:30 AM
Alpha Universe LLC	0945976	Alexey	Zdanovsky	SBIR Phase I: Phage detectors for bacterial pathogens	Rohit Shukla	Wednesday, March 10	9:00 AM
Altrum Technologies, Inc	0944159	Jean	Xie	SBIR Phase I: Seamlessly Integrated Methodology for Quick and Accurate Diagnosis of Digestive Diseases from Endoscopic Video	Rohit Shukla	Monday, March 8	1:15 PM
Amethyst Research Incorporated	0944900	Brenda	VanMil	SBIR Phase I: Advanced Infrared Imagers Constructed of Lead-Salts	Carlos Gutierrez	Monday, March 8	2:00 PM
AMPL Optimization LLC	0945093	Robert	Fourer	SBIR Phase I: Unified and Intuitive Modeling Software for Non-Traditional Optimization	Rohit Shukla	Monday, March 8	2:15 PM
Anasys Instruments Corp.	0944400	Craig	Prater	SBIR Phase I: NanoIR: Infrared Chemical Spectroscopy at the sub-20 nm Scale	Carlos Gutierrez	Wednesday, March 10	9:30 AM
Anthony J. Macula	0944491	Anthony	Macula	SBIR Phase I: Covert Combinatorial DNA Taggants Signatures for Authentication, Tracking and Trace-Back	Constanza Pachon	Wednesday, March 10	1:30 PM
Aqwest LLC	0944663	John	Vertrovec	SBIR Phase I: Active Heat Sink for Hybrid Electric Vehicles	Constanza Pachon	Wednesday, March 10	9:45 AM
Arbor Photonics	0945648	Thomas	Sosnowski	SBIR Phase I: High Power Pulsed Fiber Laser for EUV Lithography	Rohit Shukla	Wednesday, March 10	8:00 AM
Arcademics, Inc	0945528	Jerry	Chaffin	SBIR Phase I: ENGAGE: An Online MultiPlayer Game for Math Proficiency	Alex Holiday	Monday, March 8	4:00 PM
ArchieMD, Inc	0944876	Robert	Levine	SBIR Phase I: Augmented Reality Platform for Nursing Education	John Vassiliades	Wednesday, March 10	8:45 AM
Arctic, Inc.	0945035	Gina	Stewart	SBIR Phase I: Non-Polluting Method of Weed Control	Bob Morris	Wednesday, March 10	1:00 PM

**LARTA INSTITUTE MEETING SCHEDULE**

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Aries Design Automation	0945974	Miroslav	Velev	SBIR Phase I: Automatic Formal Verification of Chip-Multi-Threaded Multicore Processors	John Vassiliades	Wednesday, March 10	1:30 PM
ARZEDA Corp.	0946132	Daniela	Grabs	SBIR Phase I: Computational Enzyme Design for the Production of Butadiene	Rohit Shukla	Wednesday, March 10	8:15 AM
Aspen Aerogels LLC	0944961	Redouane	Begag	SBIR Phase I: Nanoporous Aerogels for the Absorption of Hydrocarbons in Contaminated Water	Carlos Gutierrez	Monday, March 8	1:00 PM
Atkins & Pearce	0945311	Jeramie	Lawson	SBIR Phase I: Engineered Biodegradable Pods used to Create an Optimal Growing Environment for Seedlings	Carlos Gutierrez	Wednesday, March 10	11:30 AM
Auctionomics	0946124	Paul	Milgrom	SBIR Phase I: Incorporating Bidder Budgets in Multi-Item Auctions	Carlos Gutierrez	Wednesday, March 10	9:15 AM
Avencia Incorporated	0945742	Robert	Cheetham	SBIR Phase I: GPU-based Raster Processing Algorithms	John Vassiliades	Monday, March 8	3:45 PM
Barrett Technology Inc	0945429	William	Townsend	SBIR Phase I: Agile Humanoid Healthcare Robot with Puck-Based Power Regeneration	Rohit Shukla	Monday, March 8	1:00 PM
Beam Power Technology, Inc.	0944685	Thomas	Bemis	SBIR Phase I: High-efficiency, high-power, lightweight elliptic-beam traveling-wave-tube amplifier for satellite communications	Alex Holiday	Wednesday, March 10	9:45 AM
Bio Architecture Lab, Inc	0946147	Yasuo	Yoshikuni	SBIR Phase I: Bioethanol from Seaweed	Constanza Pachon	Wednesday, March 10	9:30 AM
BioCee, Inc.	0945970	Luca	Zullo	SBIR Phase I: Biocatalytic Coatings for the Desulfurization of Petroleum Products	Bob Morris	Monday, March 8	2:45 PM
Biodetection Instruments LLC	0945184	Lisa	Bielke	SBIR Phase I: Detection and Determination of Viability of Cryptosporidium Oocysts by Capillary Column Immunosensor	Constanza Pachon	Monday, March 8	1:00 PM
Biomerix Corporation	0944877	Balakrishna	Haridas	SBIR Phase I: Bioresorbable Polyurethane Scaffold Materials for Regenerative Applications in Advanced Wound Healing	Rohit Shukla	Wednesday, March 10	10:45 AM
Bioproduction Group, Inc.	0945777	David	Zhang	SBIR Phase I: Enterprise Decision making using Activity Interaction technology	Joel Balbien	Monday, March 8	1:30 PM
Bioremediation Consulting Inc	0945557	Margaret	Findlay	SBIR Phase I: Development and Characterization of a Bioaugmentation Culture to Remediate Chlorinated Ethenes in Low pH Ground Water	Constanza Pachon	Wednesday, March 10	9:15 AM
BioTools, Inc.	0945484	Rina	Dukor	SBIR Phase I: Vibrational CD Microscopy for Characterizing Supramolecular Bio-Chirality	Rohit Shukla	Wednesday, March 10	1:45 PM
Blue Shift Software Laboratory Inc	0945936	Franklin	Harper	SBIR Phase I: Blue Shift Communities - Improving Online Technical Support	Constanza Pachon	Monday, March 8	2:00 PM
Bluewater Technology	0945905	Matthew	Green	SBIR Phase I: Commutational Ramp Load Disk Drive Actuator	Alex Holiday	Wednesday, March 10	11:30 AM
Bodega Algae LLC	0945345	Samuel	Hill	SBIR Phase I: Light Delivery Enhancement of Photobioreactors	Rohit Shukla	Wednesday, March 10	11:00 AM
Boston Applied Technologies, Incorporated	0945475	Xiaomei	Guo	SBIR Phase I: Smart Thermal Barrier Coating for Gas Turbine Surface Temperature Monitoring	Alex Holiday	Monday, March 8	3:30 PM
Boulder Environmental Sciences and Technology, LLC	0944622	Marian	Klein	SBIR Phase I: The Marine Profiling Radiometer	Alex Holiday	Monday, March 8	2:30 PM
Bridger Photonics, INC	0945805	Brant	Kaylor	SBIR Phase I: High Resolution, Low Cost, Compact 3D Imaging System	Rohit Shukla	Monday, March 8	1:30 PM
Caisson Laboratories, Inc.	0944919	Dominique	Roche	SBIR Phase I: Increasing the Yield of High Quality Starch from Grain	Carlos Gutierrez	Wednesday, March 10	10:45 AM
CapSmart	0945723	Peter	Shannon	SBIR Phase I: Capital Structuring Decision Support	Rohit Shukla	Wednesday, March 10	8:30 AM
Carmot Therapeutics, Inc.	0944429	Daniel	Erlanson	SBIR Phase I: A new drug discovery method to transform peptides to small molecules: proof of principle with p53-hdm2	Alex Holiday	Monday, March 8	2:00 PM
Carnegie Speech Company	0945580	Garrett	Pelton	SBIR Phase I: Clarify - Tutoring Listening Comprehension	Joel Balbien	Wednesday, March 10	9:45 AM
CEENBoT, Inc	0945280	Dennis	Deyen	SBIR Phase I: Commercialization of the CEENBoT Educational Platform for K-16	Alex Holiday	Wednesday, March 10	9:15 AM
Ceralink Inc.	0945692	Holly	Shulman	SBIR Phase I: Ultra High Temperature Microwave Processing of Ceramics	Alex Holiday	Wednesday, March 10	1:30 PM
Chemicro Engineering	0945263	Aleksander	Franz	SBIR Phase I: Catalyst Development MicroReactor	Joel Balbien	Wednesday, March 10	11:30 AM

**LARTA INSTITUTE MEETING SCHEDULE**

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Chiaro Technologies LLC	0946060	Benjamin	Braker	SBIR Phase I: Ultra-high-speed 3-D imaging	Carlos Gutierrez	Monday, March 8	1:15 PM
CoBlitz LLC	0945610	Patrick	Richardson	SBIR Phase I: CoBlitz: Enabling ISPs to Leverage Network Ownership	Carlos Gutierrez	Wednesday, March 10	9:00 AM
ColdQuanta, Inc.	0945042	Jeremy	Hughes	SBIR Phase I: Atom Chips for Cold & Ultracold Matter Applications	Constanza Pachon	Wednesday, March 10	9:00 AM
Cool Clean Technologies Inc.	0944494	Jon	Turner	SBIR Phase I: Environmentally-Friendly Coolant System for Composite CFRP (Carbon Fiber Reinforced Plastic) Drilling	Alex Holiday	Wednesday, March 10	9:30 AM
Courseload, LLC	0945499	Michael	Levitan	SBIR Phase I: Courseload Learning Platform: Digital Delivery and Use of Course Materials in Higher Education	Carlos Gutierrez	Monday, March 8	3:45 PM
Creatv MicroTech, Inc.	0945747	Cha-Mei	Tang	SBIR Phase I: In-line Monitoring of Pathogens in Treated Waste Water	Rohit Shukla	Monday, March 8	2:45 PM
Crossbow Technology, Inc.	0945335	John	Zhang	SBIR Phase I: High Precision MEMS Gyroscopes for Gyrocompassing	Joel Balbien	Monday, March 8	2:45 PM
Cyber Materials Solutions	0945751	Dennis	Radgowski	SBIR Phase I: Sensing and Control System for High Velocity Oxygen Fuel (HVOF) Deposited Nanocomposite Coatings	Constanza Pachon	Wednesday, March 10	1:15 PM
Dendritech, INC	0945303	Steve	Kaganove	SBIR Phase I: Disinfection of Spore-Forming Bacteria with Advanced Functional Surface Coatings	Carlos Gutierrez	Monday, March 8	4:15 PM
Divergence, Inc.	0944853	Urszula	Slomczynska	SBIR Phase I: Novel Advanced Nematicides with Improved Efficacy and Safety	Alex Holiday	Wednesday, March 10	11:15 AM
DNA Polymerase Technology, Inc.	0945089	Milko	Kermekchiev	SBIR Phase I: Inhibition-Resistant DNA Polymerases and Other Improvements for Detection of Food-borne Pathogens.	Carlos Gutierrez	Wednesday, March 10	8:45 AM
Doty Scientific, Inc.	0945502	F David	Doty	SBIR Phase I: A Novel Engine for Dramatically Improved Efficiency in a Geothermal-CSP Hybrid	Carlos Gutierrez	Monday, March 8	2:45 PM
Dynaflow Inc	0945508	Jin Keun	Choi	SBIR Phase I: Paint Sludge Separation Using Enhanced Cross-Flow Filtration	Bob Morris	Wednesday, March 10	1:30 PM
E3 Materials LLC	0945513	Pingshan	Wang	SBIR Phase I: TBNTBN	John Vassiliades	Monday, March 8	2:45 PM
Echelon Biosciences, Inc.	0944243	Damian	Madan	SBIR Phase I: Near Infrared Substrates for Imaging Autotaxin Activity In Vivo	Constanza Pachon	Monday, March 8	2:45 PM
Ecosil Technologies LLC	0944705	William	VanOoij	SBIR Phase I: An Approach to Pigments that Provide Corrosion Protection on-Demand	Carlos Gutierrez	Wednesday, March 10	8:15 AM
Ecovative Design LLC	0944529	Gavin	McIntyre	SBIR Phase I: Method of Disinfecting Precursor Materials using Plant Essential Oils for a new Material Technology	Bob Morris	Monday, March 8	1:45 PM
Educational Network Services, Inc.	0944956	Paul	Horwitz	SBIR Phase I: Mathemantics: Diagnostic Math Games for Kindergarten Children	John Vassiliades	Wednesday, March 10	11:30 AM
Electrooptic Technologies and Application Systems	0945327	Lin	Pang	SBIR Phase I: Hybrid holographic lithography for cost-effective fabrication of nanostructures	Constanza Pachon	Wednesday, March 10	8:15 AM
emota.net	0945505	Paul	To	SBIR Phase I: An Internet-based Emotional Connectedness and Monitoring Device and Service for the Elderly	Alex Holiday	Monday, March 8	1:00 PM
Endres Machining Innovations	0945405	William	Endres	SBIR Phase I: Effectively-Thick Coating of High-Wear Surfaces with Application to Cutting Tools	Alex Holiday	Wednesday, March 10	8:15 AM
Energy Derived LLC	0945239	Jeff	Collier	SBIR Phase I: Development of a Device for Harvesting Biomass from a Water-Based Growth Medium	Carlos Gutierrez	Wednesday, March 10	8:30 AM
Enpoint, LLC	0945001	Robert	Pinto	SBIR Phase I: Precision Gravimetry Sensing	Joel Balbien	Monday, March 8	1:00 PM
En'urga Inc.	0945236	Yudaya	Sivathanu	SBIR Phase I: Visual Information Delivery Robot for Visually Impaired Children	Joel Balbien	Monday, March 8	2:00 PM
En'urga Inc.	0945320	Ye	Mi	SBIR Phase I: Three-Phase Flowmeter For Oil Industry	Carlos Gutierrez	Monday, March 8	1:30 PM
Envis Corporation	0945452	Hamid	Savoj	SBIR Phase I: TBC - Test Bench Compaction for Improving the Efficiency of Full-Chip Power and Thermal Evaluation	Alex Holiday	Wednesday, March 10	9:00 AM

**LARTA INSTITUTE MEETING SCHEDULE**

<b>Institution</b>	<b>Award #</b>	<b>PI First</b>	<b>PI Last</b>	<b>Title</b>	<b>Larta Program Manager</b>	<b>Larta Meeting Date</b>	<b>Larta Meeting Time</b>
ePack, Inc.	0945795	Jay	Mitchell	SBIR Phase I: A Universal Wafer-Level Capping Process for MEMS and Microdevices	John Vassiliades	Wednesday, March 10	8:30 AM
Everspin Technologies	0946127	Nicholas	Rizzo	SBIR Phase I: Structures for reduced critical current to enable Spin Torque MRAM	Bob Morris	Wednesday, March 10	11:30 AM
Exelera, LLC	0944922	Dimitri	Gioev	SBIR Phase I: Game-like Teaching/Practice System with Automated Personalized Text Messaging, Email, Web, and Voice Interaction	John Vassiliades	Monday, March 8	1:00 PM
Fairfield Crystal Technology, LLC	0943961	Shaoping	Wang	SBIR Phase I: A Novel Crystal Growth Technology for Production of ZnO Single Crystal Substrates for Light Emitters and Detectors	Constanza Pachon	Monday, March 8	1:15 PM
Faraday Technology, Inc.	0944523	Joseph	Kell	SBIR Phase I: Electroconcentration, Separation, and Rupture of Bioalgae for Fuel Production	Alex Holiday	Monday, March 8	1:30 PM
Faraday Technology, Inc.	0944707	Holly	Garich	SBIR Phase I: Faradaic ElectroCell	Constanza Pachon	Monday, March 8	1:45 PM
Fidelity Comtech Inc.	0945252	Joseph	Carey	SBIR Phase I: Dynamic Broadband Wireless Networks	Joel Balbien	Wednesday, March 10	9:15 AM
Firebird Advanced Materials, Inc.	0944993	Charles	Segal	SBIR Phase I: Use of Recycled Carbon Fibers in Sheet Molding Compounds (SMC)	Joel Balbien	Monday, March 8	2:30 PM
Florado Entek, Inc.	0944441	Wenge	Zhang	SBIR Phase I: Ultrahigh Permittivity Polymer Derived Ceramic for Energy Storage Applications	Bob Morris	Wednesday, March 10	8:45 AM
Fulcrum Composites Inc	0944716	Christopher	Edwards	SBIR Phase I: Development of a Low Cost Thermal Storage System Using a Novel Phase Change Material for Use with Solar Thermal and Waste Heat Recovery Systems	Alex Holiday	Monday, March 8	1:45 PM
Fusion Coolant Systems, Inc.	0944814	Andrew	King	SBIR Phase I: Minimum Quantity Lubrication Delivered by Supercritical Carbon Dioxide for Forming Applications	John Vassiliades	Wednesday, March 10	1:45 PM
Gamma Dynamics LLC	0944455	Kenneth	Dean	SBIR Phase I: Bistable Electrofluidic Device for High-Brightness Electronic Paper	Constanza Pachon	Wednesday, March 10	8:45 AM
Gamma Dynamics LLC	0945339	Kenneth	Dean	SBIR Phase I: Active Visible and Infrared Management for More Energy Efficient Buildings	Bob Morris	Wednesday, March 10	10:45 AM
Garbrook Knowledge Resources, Inc.	0944735	James	Garrels	SBIR Phase I: Targeted Information Products Built from a Curated Knowledge Base	John Vassiliades	Monday, March 8	1:15 PM
General Nano, LLC	0945085	Ge	Li	SBIR Phase I: Achieving Breakthrough Properties for Carbon Nanotube Yarn Via Base Flow Chemical Vapor Deposition and Industrial Spinning	Carlos Gutierrez	Wednesday, March 10	8:00 AM
Genforma	0945232	Jeffrey	Fischer	SBIR Phase I: Automated Configuration Management for Open Source Applications	Constanza Pachon	Wednesday, March 10	8:00 AM
Glastonbury Musings Inc.	0945559	Ronda	Potter	SBIR Phase I: Optimal Enterprise Timetabling for Academic Institutions	Rohit Shukla	Wednesday, March 10	11:15 AM
Green Revolution Cooling, Inc	0945346	Christiaan	Best	SBIR Phase I: Mineral oil cooling for energy and cost efficient data centers	Constanza Pachon	Monday, March 8	4:00 PM
Guidewire Group	0944932	Michael	Sigal	SBIR Phase I: Web Enabled Expert System to Scale Diagnosis and Improvement of Entrepreneurial Skills	Carlos Gutierrez	Wednesday, March 10	11:00 AM
Guild Associates Inc.	0944555	Joseph	Rossin	SBIR Phase I: Catalyst for the Oxidation of Methane in Coal Mine Ventilation Air	Joel Balbien	Monday, March 8	1:45 PM
HAI Advanced Material Specialists, Inc.	0946177	Daren	Gansert	SBIR Phase I: Multi-Functional Materials for Multiple Applications	Carlos Gutierrez	Wednesday, March 10	1:00 PM
Hans Tech	0944442	Clause	Xu	SBIR Phase I: Reinforcement of Lightweight Material Castings with Dissimilar Metals	John Vassiliades	Monday, March 8	2:15 PM
Harmonic Devices Inc.	0945391	Justin	Black	SBIR Phase I: Miniaturized Contour-Mode Intermediate Frequency (IF) Piezoelectric Aluminum Nitride MEMS Filters for Electronic Communication	Joel Balbien	Wednesday, March 10	11:15 AM
Heavystone Laboratory, LLC	0945261	Peng	Fan	SBIR Phase I: Functionally Graded Cemented Tungsten Carbide -- Process and Properties	John Vassiliades	Wednesday, March 10	9:45 AM

**LARTA INSTITUTE MEETING SCHEDULE**

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Hoowaki LLC	0945386	Ralph	Hulseman	SBIR Phase I: Manufacturing Technology for Microstructured Hydrophobic Surfaces	Alex Holiday	Monday, March 8	2:15 PM
Hydroqual Inc	0945652	Chengyue	Shen	SBIR Phase I: Developing a Multi-Functional Nanoparticle-Enhanced Filter Media for Decentralized Water Purification Systems	Alex Holiday	Wednesday, March 10	8:00 AM
HYPRES, Inc.	0944995	Deepnarayan	Gupta	SBIR Phase I: Modified Doherty Transmit Architecture Employing Digital Signal Synthesis for Wideband RF Communication	John Vassiliades	Wednesday, March 10	10:30 AM
iFyber, LLC	0945338	Aaron	Strickland	SBIR Phase I: Integrated Textile Detection Platform for Positive Identification	Bob Morris	Wednesday, March 10	1:45 PM
Independence Science, LLC	0945481	Cary	Supalo	SBIR Phase I: Promoting STEM Education for Students Who are Blind or Print Disabled Through the Development of the First Talking Pocket Size Scientific Data Collection Device	Joel Balbien	Monday, March 8	3:30 PM
Industrial Learning Systems	0945222	Balaji	Sukumar	SBIR Phase I: Continuous Production of Crystalline Silicon Sheet (or wafer) for Solar Cell	Alex Holiday	Wednesday, March 10	8:30 AM
Industrial Measurement Systems Inc.	0945455	Donald	Yuhas	SBIR Phase I: Tools for Improved Friction Material Processing	Joel Balbien	Wednesday, March 10	10:45 AM
Information in Place, Inc.	0945681	Jamie	Kirkley	SBIR Phase I: Astro-Engineer: Implement Problem-based Serious Games Approach to Engage Middle School Students in Engineering Design Challenges Related to Colonizing Space	Joel Balbien	Wednesday, March 10	8:15 AM
Inlustra Technologies LLC	0946011	Paul	Fini	SBIR Phase I: Scalable Bulk GaN Crystal Growth	John Vassiliades	Monday, March 8	3:30 PM
Innovatech Inc.	0945529	Steve	Wright	SBIR Phase I: Cost Effective Microalgae Harvesting in Phytobioreactors	John Vassiliades	Monday, March 8	2:30 PM
Innovative Micro Technology	0944675	Jaquelin	Spong	SBIR Phase I: Single Cell Growth Measuring Device	John Vassiliades	Wednesday, March 10	8:15 AM
Innovega Inc.	0944890	Randall	Sprague	SBIR Phase I: Optic-On-Eye Virtual Reality Display	Rohit Shukla	Wednesday, March 10	9:30 AM
Insera Therapeutics Inc.	0946099	Vallabh	Janardhan	SBIR Phase I: Technology development and pre-clinical testing of a novel minimally invasive catheter-based blood clot-retrieval and clot-filtering device	John Vassiliades	Wednesday, March 10	9:15 AM
Institute for Disabilities Research and Training, Inc.	0944752	Corinne	Vinopol	SBIR Phase I: ASL Literacy Support System	Joel Balbien	Monday, March 8	2:15 PM
Intact Labs LLC	0945620	Matthew	Silver	SBIR Phase I: Energy Efficient BOD Removal and Denitrification for Recirculating Aquaculture Facilities with a Combined Bioelectrochemical Process	Bob Morris	Wednesday, March 10	10:30 AM
inXsol, LLC	0945987	Henry	Rying	SBIR Phase I: The Way Entrepreneurs Learn: Migration from Supercoach Instructor-Led Entrepreneurial Education Curriculum to Blended Learning Technology	Constanza Pachon	Wednesday, March 10	10:30 AM
ISCA Technologies, Inc.	0945863	Agenor	Mafra-Neto	SBIR Phase I: Versatile Hand Held Nanosensory Pathogen Detection Device for Real-Time Diagnosis	Alex Holiday	Wednesday, March 10	10:30 AM
JEM Enterprises, Inc.	0945561	Paul	Wickboldt	SBIR Phase I: Tin(II) Sulfide Photovoltaics	Bob Morris	Monday, March 8	2:00 PM
Kavana Technology, LLC	0944000	Muralidhar	Rao	SBIR Phase I: Novel buffer layers for superior superconductor films on a low-cost substrate	Bob Morris	Monday, March 8	1:30 PM
Kent Optronics, Inc.	0945488	Ben	Tang	SBIR Phase I: Ultrafast Self-Reactive Laser Eye Protection Devices	Rohit Shukla	Monday, March 8	2:30 PM
Kotura, Inc	0946131	Mehdi	Asghari	SBIR Phase I: Geo-photonics - Monolithic Integration in Silicon of Geometrically Diverse Photonic Components for Access, Datacom and Interconnect Applications	Constanza Pachon	Monday, March 8	4:15 PM
KWJ Engineering Incorporated	0945515	Joseph	Stetter	SBIR Phase I: Screen-Printed Gas Sensor using Nanoparticulate Catalyst	Carlos Gutierrez	Monday, March 8	3:30 PM
Labrador Research LLC (OndaVia, Inc.)	0945002	Mark	Peterman	SBIR Phase I: Hand-Held Device for PPB-level Water Analysis	Joel Balbien	Monday, March 8	3:45 PM
Lake Shore Cryotronics, Inc	0945136	Mahavir	Sanghavi	SBIR Phase I: Improved Metal Oxide Magneto-Optical Indicator Films and Method of Fabrication	Carlos Gutierrez	Wednesday, March 10	11:15 AM

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LaunchPoint Technologies, LLC	0945595	Maksim	Subbotin	SBIR Phase I: Magnetically Actuated Valve System	Bob Morris	Wednesday, March 10	9:30 AM
LC Vision, LLC	0946085	Michael	Wang	SBIR Phase I: Ion and Radical-Free, Polymer-Stabilized, Vertically-Aligned Nematic LCDs for Enhanced Lifetime	Bob Morris	Wednesday, March 10	8:00 AM
Leanics Corporation	0944654	Kung	Te-Lung	SBIR Phase I: High-Rate Low-Power Wireless Telemetry System for Medical Applications	Joel Balbien	Wednesday, March 10	10:30 AM
Lenterra Inc	0945167	Mark	Denning	SBIR Phase I: Spectral photoionization detector (SPID): real-time, in situ detection and identification of volatile organic compounds using electron spectroscopy	John Vassiliades	Wednesday, March 10	10:45 AM
Librede Inc.	0945802	Jason	Poulos	SBIR Phase I: Development of new materials for a low cost high throughput ion channel measurement platform	Bob Morris	Monday, March 8	1:00 PM
Life BioScience, Inc.	0944432	Colin	Buckley	SBIR Phase I: BVDV Detection by Novel Micropost Technology	Carlos Gutierrez	Wednesday, March 10	9:45 AM
Life BioScience, Inc.	0945752	Jeb	Flemming	SBIR Phase I: Novel Glass/Glass-Ceramic Material for Electronics Packaging	Joel Balbien	Wednesday, March 10	9:00 AM
LivingText LLC	0945571	Deborah	Gibson	SBIR Phase I: LECTURETOOLS - An Integrated Textbook/Learning Management System	Joel Balbien	Wednesday, March 10	8:30 AM
M4 Sciences LLC	0944980	James	Mann	SBIR Phase I: Large-Scale Production of Non-Ferrous Metal Fibers by Modulation-Assisted Machining	Constanza Pachon	Monday, March 8	3:45 PM
MATECH Advanced Materials	0946102	Edward	Pope	SBIR Phase I: Novel Environmental Barrier Coatings for High-Temperature Metals and Ceramic Matrix Composites	Joel Balbien	Wednesday, March 10	1:15 PM
Materials Innovation Technologies, LLC.	0944498	Mark	Janney	SBIR Phase I: Long Fiber Thermoplastic Composites from Recycled Carbon Fiber	Constanza Pachon	Monday, March 8	1:30 PM
Mayaterials Inc.	0945489	Vera	Popova	SBIR Phase I: NSF 09-541 NM N2: Cubic Silsesquioxanes as Green, Novel, Nano-engineered Materials for Hard, Thermally Stable and Hydrophobic Coatings	Constanza Pachon	Wednesday, March 10	8:30 AM
MedChem Partners LLC	0943648	Steven	Riesinger	SBIR Phase I: Ring Contraction Metathesis Reaction for the Generation of Novel Polyene Macrolides	Joel Balbien	Wednesday, March 10	8:00 AM
Medken LLC	0945953	Armin	Moehrle	SBIR Phase I: Mammography Analysis and Reporting System	Bob Morris	Wednesday, March 10	8:15 AM
MemPro Ceramics Corporation	0945084	Gary	Carlson	SBIR Phase I: Immobilization of Catalyzed Metal Oxide Nanofibers for Advanced Catalyst Support Structures	Bob Morris	Monday, March 8	3:45 PM
Meridian Deployment Corporation	0944928	Eric	Pan	SBIR Phase I: Motion-Free Tracking Solar Concentrator	John Vassiliades	Monday, March 8	1:45 PM
Mesa Photonics, LLC	0930697	Daniel	Kane	STTR Phase I: The Development of Quantum Dot Materials for Ultrafast Laser Applications	John Vassiliades	Wednesday, March 10	11:15 AM
MetaModal LLC	0946035	Enrico	Di Bernardo	SBIR Phase I: Viability of a Sensory Substitution Device Giving Blind Users Sight Through Sound	Alex Holiday	Wednesday, March 10	8:45 AM
MetaTenna	0945428	Adam	Fontecchio	SBIR Phase I: Inkjet Printed Antennas for Wireless Local Area Networks	Carlos Gutierrez	Monday, March 8	1:45 PM
METFAB Technologies, Inc.	0945074	Eugene	Park	SBIR Phase I: Replacement of Toxic and Polluting Cleaning Processes Using Vacuum Cycle Nucleation	Joel Balbien	Monday, March 8	4:15 PM
Metramateria Partners LLC	0930626	Suvankar	Sengupta	STTR Phase I: High power, High energy density, Nanostructured bulk Li-ion Battery	Rohit Shukla	Wednesday, March 10	1:30 PM
Mezmeriz, Inc.	0945721	Shahyaan	Desai	SBIR Phase I: Next Generation Displays Based on Novel Carbon Fiber MEMS Micromirrors	Bob Morris	Wednesday, March 10	9:45 AM
Middle Way Photonics	0930364	Jeannie	Williams	STTR Phase I: Nanomaterial constructs with controllable catalytic activity: Topic MM-Subtopic SMS	John Vassiliades	Monday, March 8	2:00 PM
NANO-C, INC	0930523	Henning	Richter	STTR Phase I: Large-scale Manufacture of Exclusively Metallic or Semiconducting Single-walled Carbon Nanotubes	John Vassiliades	Wednesday, March 10	9:00 AM
NANO-C, INC	0930526	Ramesh	Sivarajan	STTR Phase I: Fullerenic Molecule-Silica Hybrid Dielectrics for the Field-Sensitive Tunneling Barriers in Flash Memory.	Bob Morris	Wednesday, March 10	9:15 AM

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nanoGriptech LLC	0930610	Burak	Aksak	STTR Phase I: Biologically Inspired Polymer Fiber Adhesives as Enhanced Gripping Materials	Constanza Pachon	Monday, March 8	2:15 PM
Nanoptics Inc	0930206	Young	Noh	STTR Phase I: Development and Manufacture of Multi-Functional Materials and Structures	Constanza Pachon	Wednesday, March 10	2:00 PM
Nanoscale Materials Inc.	0930673	Franklin	Kroh	STTR Phase I: Intelligent Low-Toxicity Nanoparticles for Cancer Diagnosis and Treatment	Rohit Shukla	Monday, March 8	4:00 PM
Northern Technologies International Corporation	0930665	Shilpa	Manjure	STTR Phase I: Advanced Poly(lactide) (PLA) Materials for Extruded Sheet Applications	Rohit Shukla	Wednesday, March 10	9:45 AM
NSC Technology	0930634	Jin	Luo	STTR Phase I: Multifunctional Magnetic Core-Shell Nanoparticles	John Vassiliades	Monday, March 8	4:15 PM
Oshkosh Nanotechnology, LLC	0930029	Charles	Gibson	STTR Phase I: High Performance Electrical Energy Storage (EES) Devices.	Bob Morris	Monday, March 8	3:30 PM
Plasma Technology Incorporated	0930750	Satish	Dixit	STTR Phase I: EBC/TBC coating system for Si-based ceramic components for improved gas turbine performance and lifetimes	Rohit Shukla	Wednesday, March 10	8:45 AM
Porifera inc.	0930427	Olgica	Bakajin	STTR Phase I: Cooperative Nanostructure Driven Self-Assembly in Carbon Nanotube/Block Co-Polymer Systems	Constanza Pachon	Wednesday, March 10	11:15 AM
Proton Energy Systems, Inc.	0930447	Kathy	Ayers	STTR Phase I: Development of High Temperature Membranes for Increased PEM Electrolysis Efficiency	Alex Holiday	Monday, March 8	4:15 PM
QuantTera	0930623	Matt	Kim	STTR Phase I: Broadband Silicon-Germanium Based Quantum Dot Materials	Rohit Shukla	Wednesday, March 10	2:00 PM
Resodyn Corporation	0930709	Manfred	Biermann	STTR Phase I: Field-Applicable Anticorrosion Coatings Using Polyaniline Nanofibers	John Vassiliades	Wednesday, March 10	8:00 AM
SciGenesis, LLC	0930621	Praveen	Madasu	STTR Phase I: Novel Nanoparticle Complexes for Tunable Dielectric Materials	Alex Holiday	Wednesday, March 10	1:45 PM
Selah Technologies, LLC	0930494	Andrew	Metters	STTR Phase I: Holistic Separation of High Purity Metallic and Semiconducting Single-Wall Carbon Nanotubes	Alex Holiday	Monday, March 8	1:15 PM
SenMater Technology	0932661	Chuanmin	Ruan	STTR Phase I: Development of Aptamer-ssDNA Intelligent Hydrogel Materials for Magnetoelastic Detection of Avian Influenza Virus	Bob Morris	Monday, March 8	2:15 PM
Solarno	0930699	Qiang (Bill)	Wu	STTR Phase I: Synthesis of multifunctional nanofibrous polyaniline/carbon composites	Bob Morris	Wednesday, March 10	9:00 AM
Structured Materials Industries, Inc.	0930419	Nick	Sbrockey	STTR Phase I: Graphene Based NOx Detector	Constanza Pachon	Wednesday, March 10	11:00 AM
SVT Associates, Incorporated	0930710	Amir	Dabiran	STTR Phase I: Epitaxial nanostructured AlGaN for high efficiency UV emitters	Carlos Gutierrez	Wednesday, March 10	2:00 PM
The Mackinac Technology Center	0930299	John	Slagter	STTR Phase I: Nano-sphere Modified Fibers for Super Insulating Window Coverings	Bob Morris	Monday, March 8	1:15 PM
Titan Optics & Engineering	0930301	Mark	Meisner	STTR Phase I: Spectrally Adaptive Photodetectors	Rohit Shukla	Monday, March 8	4:15 PM
United Environment & Energy, LLC	0930629	Ben	Wen	STTR Phase I: Waste Cooking Oil and Fly Ash Based Bioasphalt	Carlos Gutierrez	Monday, March 8	2:30 PM
United Science LLC	0930087	Jon	Thompson	STTR Phase I: Chemical Sensors for In situ Monitoring of Collector Chemicals in Complex Copper Mine Effluents	Bob Morris	Wednesday, March 10	8:30 AM
Virginia nanoTech LLC	0930423	Jason	Ridley	STTR Phase I: Multifunctional Nanoparticle Assemblies for Optical Diagnosis and Treatment of Disease	Bob Morris	Monday, March 8	4:15 PM
Xidex Corporation	0930668	Vladimir	Mancevski	STTR Phase I: Carbon Nanotube Electrolytic Ultracapacitor	Joel Balbien	Wednesday, March 10	8:45 AM
Zymera Corporation	0930533	Sukanta	Bhattacharyya	STTR Phase I: Non-Toxic Nanoparticles for BRET-Based Molecular Imaging	Bob Morris	Wednesday, March 10	11:15 AM





## SPRING 2010 NSF SBIR/STTR PHASE I GRANTEE WORKSHOP

March 8-10, 2010

Hyatt Regency Crystal City  
2799 Jefferson Davis Highway  
Arlington, VA 22202

### **4Wind Science and Engineering, LLC**

NASA Ames Research Center  
Moffett Field, CA 94035  
PI: Cattien Nguyen  
PI Email: cattien.nguyen@4windse.com  
Award # 0945253

### **A2 Technologies, LLC**

14 Commerce Drive  
Danbury, CT 06810  
PI: Steven Donahue  
PI Email: sdonahue@a2technologies.com  
Award # 0944892

### **ACTA LLC**

4086 26th Street  
Boulder, CO 80304  
PI: Edward Clancy  
PI Email: evclancy@csupomona.edu  
Award # 0944681

### **AcuDisplay, Inc.**

828 San Pablo Ave.  
Albany, CA 94706  
PI: Farshid Arman  
PI Email: farshid@acudisplay.com  
Award # 0945972

### **Adaptive Communications Research Inc.**

12581 Carmel Canyon Road  
San Diego, CA 92130  
PI: Garret Okamoto  
PI Email: garret@adaptivecomms.com  
Award # 0946027

### **Adherent Technologies, Inc.**

9621 Camino Del Sol NE  
Albuquerque, NM 87111  
PI: Jan Gosau  
PI Email: adherenttech@comcast.net  
Award # 0945781

### **Advanced Diamond Technologies**

429 B Weber Road  
Romeoville, IL 60446  
PI: John Carlisle  
PI Email: carlisle@thindiamond.com  
Award # 0945935, Award # 0930676

### **Advanced Materials & Devices, Inc.**

6490 S. McCarran Blvd, Suite 34  
Reno, NV 89509  
PI: Barkan Kavlicoglu  
PI Email: b.kavlicoglu@amadinc.com  
Award # 0930398

### **Advanced Photonic Crystals, LLC**

377 Rubin Center Crive  
Fort Mill, SC 29708  
PI: Henry Giesber  
PI Email: hgiesber@apcrystal.com  
Award # 0930035, Award # 0945282

### **Advanced Thermal Technologies**

91 S. Street  
Upton, MA 01568  
PI: James Connell  
PI Email: jconnell@charter.net  
Award # 0930393

### **Advantageous Systems LLC**

2265 E. Foothill Blvd  
Pasadena, CA 91107  
PI: Adam Stein  
PI Email: adam@advantageoussystem.com  
Award # 0930768, Award # 0946115

### **Aerodyne Research Inc**

45 Manning Rd Suite 2  
Billerica, MA 01821  
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## ***SBIR/STTR PHASE I GRANTEE DIRECTORY***

### **Agile Sciences Inc.**

3309 Milton Rd  
Raleigh, NC 27609  
PI: Stephen McCall  
PI Email: smccall@agilesci.com  
Award # 0930480

### **Agiltron Incorporated**

15 Cabot Rd  
Woburn, MA 01801  
PI: Kuiyang Jiang  
PI Email: kjiang@agiltron.com  
Award # 0930619

### **ALD Nanosolutions, LLC**

580 Burbank St, Unit 100  
Broomfield, CO 80020  
PI: John Ferguson  
PI Email: john.ferguson@aldnanosolutions.com  
Award # 0930734

### **Allotropica Technologies**

413 Deming Road  
Chapel Hill, NC 27514  
PI: Yongchao Si  
PI Email: ysi@email.unc.edu  
Award # 0930099

### **Alpha Universe LLC**

1202 Ann Street  
Madison, WI 53713  
PI: Alexey Zdanovsky  
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Award # 0945976

### **Altrum Technologies, Inc**

1434 Carrington Ridge Ln  
Vienna, VA 22182  
PI: Jean Xie  
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Award # 0944159

### **AMEROM LLC**

7131 Raintree Drive  
Citrus Heights, CA 95621  
PI: Ruxandra Vidu  
PI Email: r\_vidu@yahoo.com  
Award # 0930554

### **Amethyst Research Incorporated**

1405 4th Avenue NW  
Ardmore, OK 73401  
PI: Brenda VanMil  
PI Email: vanmil@amethystresearch.com  
Award # 0944900

### **AMPL Optimization LLC**

900 Sierra Place SE  
Albuquerque, NM 87108  
PI: Robert Fourer  
PI Email: 4er@ampl.com  
Award # 0945093

### **Anasys Instruments Corp.**

25 W. Anapamu, Suite B  
Santa Barbara, CA 93105  
PI: Craig Prater  
PI Email: craig@anasysinstruments.com  
Award # 0944400

### **Angstron Materials, LLC**

1240 McCook Ave.  
Dayton, OH 45404  
PI: Aruna Zhamu  
PI Email: aruna.zhamu@angstronmaterials.com  
Award # 0930342

### **Anthony J. Macula**

36 Westview Cr  
Geneseo, NY 14454  
PI: Anthony Macula  
PI Email: macula@frontiernet.net  
Award # 0944491

### **Applied Nanofemto Technologies**

181 Stedman St. #2  
Lowell, MA 01851  
PI: Jarrod Vaillancourt  
PI Email:  
jarrod.vaillancourt@appliednanofemto.com  
Award # 0930486

### **Applied Sciences, Inc.**

141 W. Xenia Avenue  
Cedarville, OH 45314  
PI: David Burton  
PI Email: dburton@apsci.com  
Award # 0930573

## ***SBIR/STTR PHASE I GRANTEE DIRECTORY***

### **AppliFlex LLC**

PO Box 159293  
Nashville, TN 37215  
PI: Hee Park  
PI Email: hkpark@appliflex.com  
Award # 0930594

### **Aqwest LLC**

8276 Eagle Road  
Larkspur, CO 80118  
PI: John Vertrovec  
PI Email: jvetrovec@aqwest.com  
Award # 0944663

### **Arbor Photonics**

251 Jackson Plaza  
Ann Arbor, MI 48103  
PI: Thomas Sosnowski  
PI Email: tsoz@arborphotonics.com  
Award # 0945648

### **Arcademics, Inc**

11460 S Wilder St  
Olathe, KS 66061  
PI: Jerry Chaffin  
PI Email: jerry@arcademicskillbuilders.com  
Award # 0945528

### **ArchieMD, Inc**

3600 FAU Blvd.  
Boca Raton, FL 33431  
PI: Robert Levine  
PI Email: rlevine@archiemd.com  
Award # 0944876

### **Arctic, Inc.**

4140 Clemmons Rd., Ste 120  
Clemmons, NC 27012  
PI: Gina Stewart  
PI Email: gina@frostbite4weeds.com  
Award # 0945035

### **Aries Design Automation**

6157 N Sheridan Rd, Suite 16M  
Chicago, IL 60660  
PI: Miroslav Velev  
PI Email: miroslav.velev@aries-da.com  
Award # 0945974

### **ARZEDA Corp.**

2722 Eastlake Ave East  
Seattle, WA 98102  
PI: Daniela Grabs  
PI Email: daniela.grabs@arzeda.com  
Award # 0946132

### **Aspen Aerogels LLC**

30 Forbes Rd, Bldg B  
Northborough, MA 01532  
PI: Redouane Begag  
PI Email: rbegag@aerogel.com  
Award # 0944961

### **Aspen Sciences, Inc (Banyan Environmental, Inc.)**

6300 Bridgepoint Parkway  
Building One, Suite 500  
Austin, TX 78730  
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