



NSF-SBE

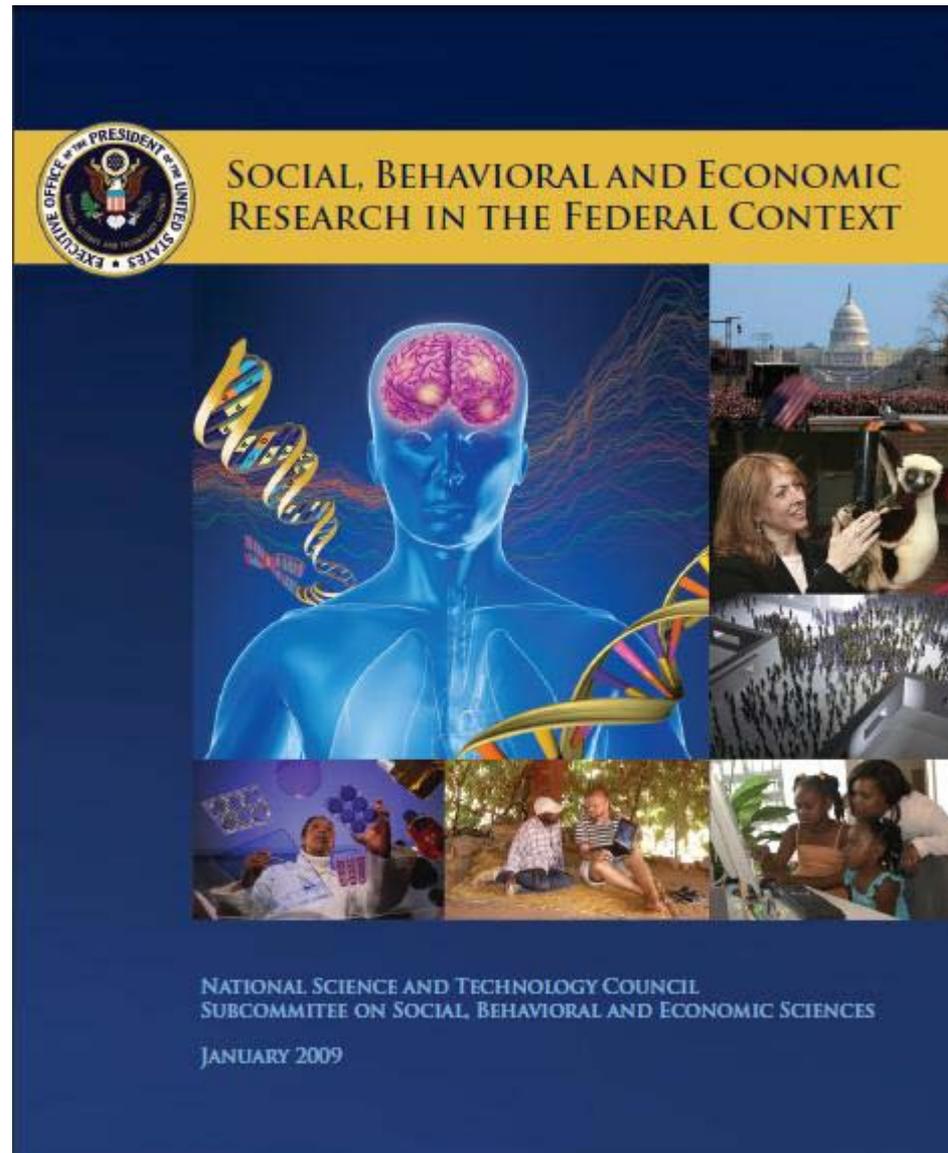
Looking to the

Future

Myron Gutmann
Assistant Director
Social, Behavioral & Economic Sciences

SBE Goals for 2011

SBE will invest in NSF- and Administration-wide initiatives, plus its core programs, in order to support the most innovative science





Standing Programs

Support Basic Science

Two Research-Focused Divisions

- Social and Economic Sciences
- Behavioral & Cognitive Sciences
- Also Science Resources Statistics Division





SBE Office of

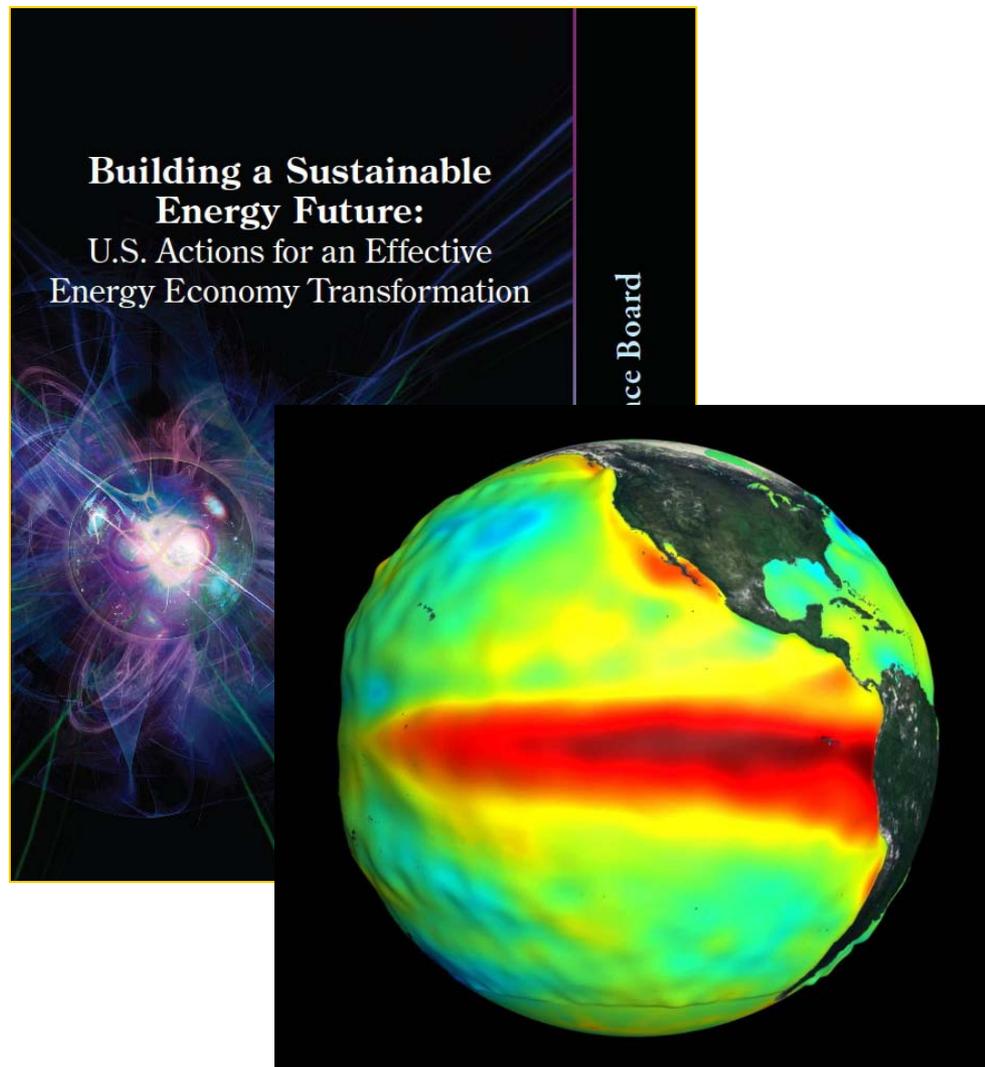
Multidisciplinary Activities (SMA)

- Created 2010 & Growing in 2011 & beyond
- Focal point for activities that cut across disciplinary boundaries
 - Science of Learning Centers
 - Science of Science & Innovation Policy (SciSIP)
 - Research Experiences for Undergraduates
 - Minority Post-Doctoral Research Fellowships
- SMA co-funds interdisciplinary research with other divisions and directorates



People, Energy, Environment

- **Science, Engineering, and Education for the Environment (SEES)**
Environmentally-related programs will increase
- Coupled Natural-Human Systems
- LTER & ULTRA-EX
- Modeling & Water
- USGCRP



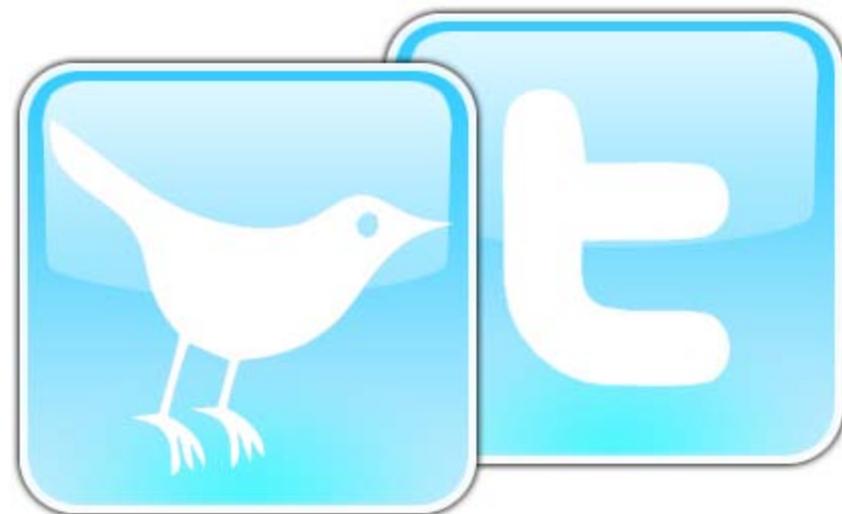


Technology & Innovation

- Science of Science & Innovation Policy will grow again in FY 2011
- Cyber-Enabled Discovery & Innovation (CDI) & other cyber-related initiatives
- Social media archive explorations



Myron Gutmann
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SBE Research Infrastructure

- Gold-Standard Surveys
- Enhanced Access & Dissemination
- New Infrastructure workshop in December, 2010
- Observation network pilots by 2012?



PANEL STUDY OF
INCOME DYNAMICS



NHGIS

General Social Survey



NSF Strategic Plan 2010

- **Three Strategic Goals**
 - Transform the Frontier
 - Innovate for Society
 - Perform as a Model Agency
- **Emphasis on**
 - Setting measurable performance goals
 - Assessment and evaluation



NSF Data Policy Implementation

- Data Management Plans required: mid-January
- Supplementary docs – no more than 2 pages
- Proposals without plans returned
- Discussed during merit review consideration
- Panels will use community standards to evaluate



NSF 10-069

Dear Colleague Letter for SBE 2020: Future Research in the Social, Behavioral & Economic Sciences

At the end of the first decade of the 21st century, the social, behavioral, and economic sciences face extraordinary opportunities to address next-generation research challenges. The landscape is vast and complex, stretching across temporal and spatial dimensions and multiple levels of analysis -- from studying the human brain to implications of decision making in a dynamic and fragmented yet interconnected world. As we look forward 10 or even 20 years, the Directorate for the Social, Behavioral, and Economic Sciences of the National Science Foundation (NSF/SBE) seeks to frame innovative research for the year 2020 and beyond that enhances fundamental knowledge and benefits society in many ways.

This request is part of a process that will help NSF/SBE make plans to support future research. Other activities will include a report by the Directorate's Advisory Committee about the grand challenges facing the SBE sciences over the next decade and recommendations from the Directorate's staff. The insights resulting from this process are threefold: They will inform the substance of future research, the capacities to pursue that research, and the infrastructure to enable investigations that will be increasingly interdisciplinary and international and will involve multiple perspectives and intellectual frameworks, differing scales and contexts, and diverse approaches and methodologies.

As a first step in engaging its community, NSF/SBE invites individuals and groups to contribute white papers outlining grand challenge questions that are both foundational and transformative. They are foundational in the sense that they reflect deep issues that engage fundamental assumptions behind disciplinary research traditions and are transformative because they seek to leverage current findings to unlock a new cycle of research. We expect these white papers to advance SBE's mission to study human characteristics and human behaviors in its Social and Economic Sciences and Behavioral and Cognitive Sciences divisions, as well as to be the nation's resource for understanding the structure and development of science through its Science Resources Statistics division. These white papers must:

- Explain the challenge question, capability to be created, or scientific strategy; provide context in terms of recent research results and standing questions in the field; suggest the range of disciplines that may contribute, and indicate the implications for future research within and across disciplines.
- Limit the white paper to 2,000 words with a 200-word maximum abstract and up to 3 references to relevant readings.
- Include a Creative Commons *Attribution Non-Commercial Share Alike* license (<http://creativecommons.org/about/licenses/>) so that the material may be made widely available through the web.
- Arrive by September 30, 2010 in a Microsoft Word-compatible format. Submit to: http://www.nsf.gov/sbe/sbe_2020/.

NSF/SBE plans to use these contributions over the next year to assist in formulating plans that will guide its strategic scientific thinking. Consequently, we anticipate making all abstracts and papers accessible through the SBE 2020 website. Authors who do not wish to have their papers made available through the website may restrict access to NSF staff. However, the author(s), title, and abstract will be included in the publicly accessible corpus. Research is cumulative and progress is at times necessarily incremental. We invite you, now, to step outside of present demands and to think boldly about future promises. We await your contributions to understanding the future of SBE science.

Sincerely,

Myron Gutmann
Assistant Director

SBE 2020: Framing Next- Generation Research NSF Doc. 10-069



Why Now?

- Move beyond near-term funding cycles
- Recognize Important Scientific Successes ...
 - Social networks, behavioral economics, decision-making, spatial sciences, neuroscience & behavior
- And opportunities for new, robust data and multidisciplinary data resources
- ... to prepare for next generation science
- ... in partnership with other disciplines



Three Perspectives

- **Content:** What are the underlying questions?
- **Capacities:** What capacities are needed?
(Education, training, & skill? For whom?
Undergraduates, graduate students, post-docs, young faculty, mid-career?)
- **Infrastructure:** What data sets, networks, collections, analytical tools, modes of scholarly communication?



Input from our Communities

- **NSF/SBE Advisory Committee** has agreed to author a report.
- **Program Officers** Contributing to Staff Input
- **Community** input in the form of white papers, submitted through a website

http://www.nsf.gov/sbe/sbe_2020



An Extended & Distributed Conversation

- Seminars and workshops
- Conferences
- Other opportunities
- Two recent workshops @ NSF/SBE:
 - Genes, Cognition, and Social Behavior
 - Future Investments in Large-Scale Survey Data Access & Dissemination



Guidance for Authors of White Papers

- **Questions (required):**
 - 1) What is the **fundamental question** or questions? Why are they important?
 - 2) What are the **implications for advancing the domain?** (Does the question address fundamental science, capacity, infrastructure, or combinations?)
- **Questions (encouraged):**
 - 3) Who is doing provocative research?
 - 4) What other questions should SBE ask as responses are analyzed?



White Paper Requirements

- 200 Word Abstract
- Text in English of no more than 2,000 words with page numbers in a Microsoft Word-compatible format.
- Up to 3 references to relevant readings.
- A Creative Commons *Attribution Non-Commercial Share Alike* license (<http://creativecommons.org/about/licenses/>) so that the material may be made widely available.
- A completed online metadata record.



What the Web Site Looks Like

About your submission

Document Information

Have you included a [Creative Commons Attribution Non-Commercial Share Alike](#) license with your submittal?*

Yes No

NSF expects to make the name of the author, the title, and the abstract of your paper publicly available. Do you agree to allow the full text of your paper to be made available, as well?*

Yes No

NSF may make the full corpus of submitted papers (hereinafter, the "SBE 2020 Corpus") available to researchers upon request at some point in the future. Do you agree to allow your paper to be included in such a corpus?*

Yes No

Title of Paper:*

Abstract:*(
(maximum 200 words)

File:*



And about you

Contact Information

Name of Lead Author:

Last Name:*

First Name:*

Middle Initial:

Email Address:*

Affiliation:

Department/Unit:

University/Organization:*

State:*

Country:*

Note: Eligibility is not limited to US researchers or researchers in US institutions.

Disclaimer

Your submittal of this paper and its inclusion in the SBE 2020 Corpus does not constitute approval of its content by NSF or the US Government. The opinions and views expressed in the paper are those of the author and do not necessarily reflect those of the NSF or the US Government. Please click to acknowledge that you have read, understood, and accepted these terms.

Submit



Results: Work in Progress

- Preliminary analysis before Spring 2011
- Website will be updated
- Ongoing opportunity for input
- No specific short-term initiatives: decadal approach gives us time to prepare for future work and secure future resources

Thanks!

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Foundational & Transformative Questions

- **Foundational:** Issues that engage fundamental assumptions supporting disciplinary traditions (*as in the role of economic incentives to change energy use*)
- **Transformative:** Leverage current findings to unlock new cycles of research (*as in using social media research to explore issues of trust*)