MPS Division of Chemistry

Briefing for MPS Advisory Committee

Carol A. Bessel, Acting Division Director November 16, 2018



May 11-12, 2016

Community Inputs in Chemistry



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May 11-12, 2016

Community Inputs in Chemistry









Advancing Chicanos/Hispanics & Native Americans in Science





May 11-12, 2016

Community Inputs in Chemistry





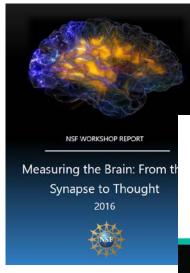


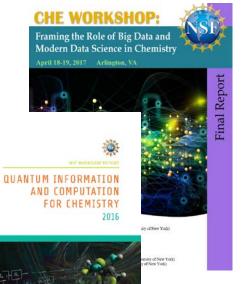


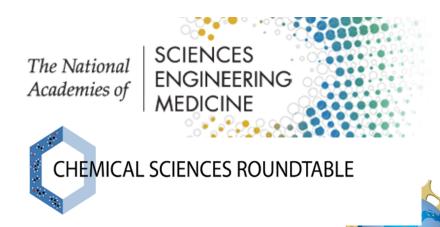
Advancing Chicanos/Hispanics & Native Americans in Science



INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY







May 11-12, 2016

Community Inputs in Chemistry









Advancing Chicanos/Hispanics
& Native Americans in Science



INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

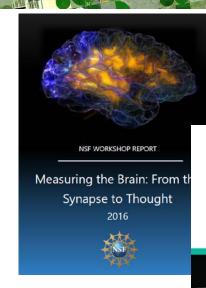


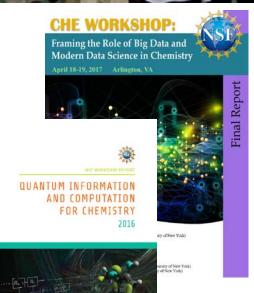
PLAN FOR ADDRESSING CRITICAL RESEARCH GAPS RELATED TO EMERGING CONTAMINANTS IN DRINKING WATER

A Report by the

of the NATIONAL SCIENCE & TECHNOLOGY COUNCIL

OCTOBER 201







Sustainability

629 Awards in MPS/CHE, DMR, DMS; ENG/CBET, CMMI; GEO/EAR

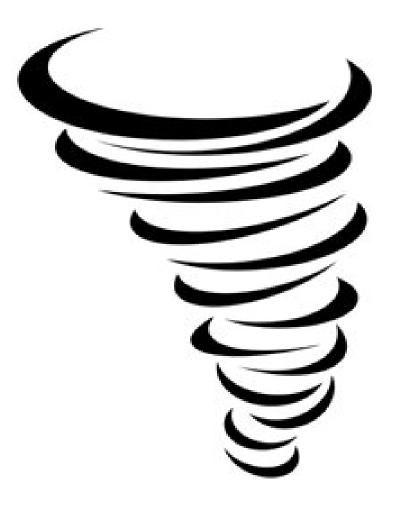
\$349,347,002 from FY 2014 - FY 2018

Dear Colleague Letter: FY 2014 Sustainable Chemistry, Engineering, and Materials (SusChEM) Funding Opportunity



Report on NSF SusChem Workshop and American Chemical Society Symposiu

Indianapolis, Indiana, 7-9 September 2013



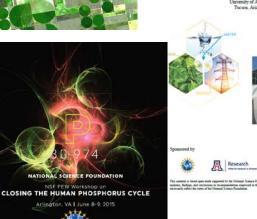


Sustainability

88 Awards \$140,146,394 from FY 2016 - FY 2019 Innovations at the Nexus of Food, Energy and Water Systems (INFEWS) FY 2016 ENG, GEO, CISE, MPS, SBE, EHR, OISE, OIA and USDA









Feeding the World in the 21st Century: Grand Challenges in the Nitrogen Cycle

Arlington, Virginia

November 9–10, 2015



Pit Nicolai Lehnert (Department of Chemistry, University of Michigan)
Co-organizers: Obora Coruza (Department of Biology, New York University)
Enic legg (Department of Biochemistry and Michigan) Biology, Michigan State University
Lance Seeffeld (Department of Chemistry and Biochemistry, Usin State University)
NSF Salabors Turnery Parties (Distinct of Chemistry University)

Lance Seefeld (Department of Chemistry and Biochemistry, Utah State University)

NSF liaison: Timothy Patien (Division of Chemistry)

o-funded by the Chemiscal Biolegineering, Environmental, and Transport Systems Ch

Evolution under NSF Available (Norther 1659881)



Sustainability

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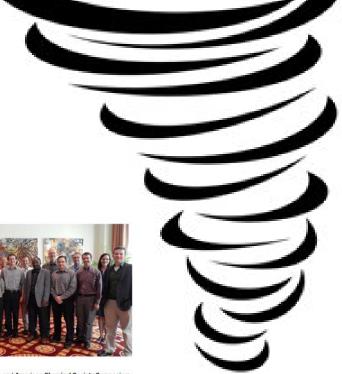


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2019 Chemistry Upcoming Activities

New Division Director Onboarding

Evaluations: Centers for Chemical Innovation Evaluation (Abt) and Chemistry Disciplinary Research Program (DRP) Solicitation

Participation in Big Ideas: HDR, QL, URoL, Midscale

Workshops:

- HDR (with DMS and NIST): Innovation Lab to Learn the Power of Data in Chemistry, Dec. 17-21, 2018
- Quantum Leap (with PHY, DMR, Microsoft, and IBM)
- Understanding the Rules of Life
- Early Career Workshop (annual event)
- Program Workshops: Chemometrics

NASEM Board on Chemical Sciences and Technology (BCST):

Graduate Education and Industrial Training – Future of Work

NASEM Chemical Sciences Roundtable (CSR):

1) Sustainable Infrastructure, 2) Plastics, and 3) Electrochemistry Code of Responsible Research with ACS

Collaborations: International Year of the Periodic Table (OLPA, MPS, and ACS), Electrochemical Society, and National GEM Consortium



2020 Chemistry Upcoming Activities

Evaluations:

- Committee of Visitors
- NAS "Decadal Study" (with DOE)

Participation in Big Ideas: HDR, QL, URoL, Midscale, and Future of Work

Other Potential Emphasis Areas: Sustainability and the Application of Artificial Intelligence to Chemical Synthesis

Collaborations: International

