



CUR Dialogues 2019

Advancing Future Research:
Strategies for Long-Term Sustainability

February 14–17, 2019

DRAFT PROGRAM



Council on Undergraduate Research
734 15th St NW, Suite 850 • Washington, DC 20005
Tel: 202/783-4810 • www.cur.org

Table of Contents

Crystal Gateway Marriott FloorplanInside front cover

Schedule of Activities:

Thursday	2
Friday	2
Saturday	10
Postconference Workshops	13
Useful Acronyms	14
Plenary Speaker Biographies	15
CUR Events and Institutes	19
Notes	20

Registration and Information

Registration begins at 2:00 pm on Thursday in the Arlington Foyer outside of Salon 3 on the first level of the Crystal Gateway Marriott.

After registering, we invite you to join other registrants for an informal gathering in the Arlington Foyer area.

The registration and information table hours are as follows:

Thursday (2/14)	2:00 pm – 5:00 pm
Friday (2/15)	7:00 am – 5:00 pm
Saturday (2/16)	7:00 am – 12:00 pm

CUR Dialogues 2019
Advancing Future Research: Strategies for Long-Term Sustainability
Connecting Faculty and Administrators at All Career Stages
to Funding Resources and Processes—and to Each Other
Thursday, February 14, 2019

- 2:00–5:00 pm Registration
Location: Arlington Foyer
- 3:30–3:45 pm **Welcome**
Elizabeth L. Ambos, Executive Officer, Council on Undergraduate Research
Location: Arlington Salon III
- 3:45–4:00 pm **Transition to Plenary panel**
- 4:00–5:00 pm **Opening Plenary Panels:**

“Creating or Revitalizing a Faculty Research Career”
Iain Crawford, University of Delaware
Kim Frederick, Skidmore College
Location: Arlington Salon II

“Overview of NSF’s Division of Undergraduate Education Grant Programs”
Pushpa Ramakrishna, Program Director, NSF EHR/DUE
Location: Arlington Salon III
- 5:15–7:00 pm Reception
Location: Arlington Foyer
-

Friday, February 15, 2019

- 7:00–8:30 am Registration & Continental Breakfast
Location: Arlington Foyer and Salon III
- 8:30–9:30 am Plenary Session II Panels

“Assessment of Undergraduate Research Programs: A Town Hall Discussion”
Anne Boettcher, Embry-Riddle Aeronautical University
Location: Arlington Salon II

“Howard Hughes Medical Institute (HHMI) Inclusive Excellence Grant Program:
A Look Ahead”
David Asai, Senior Director for Science Education, and Patricia Soochan, Program
Officer
Location: Arlington Salon III
- 9:30–9:45 am Break
Location: Arlington Foyer

- (I-1) **Building and Enhancing Research Capacity in Underserved States through the Institutional Development Award (IDeA) Program.** Krishan K. Arora, Program Director, Division for Research Capacity Building, NIGMS, NIH

The Institutional Development Award (IDeA) Program broadens the geographic distribution of NIH funding for competitive biomedical research by developing and expanding research capabilities and research infrastructure in states that have not traditionally received significant levels of NIH research dollars. There are 23 states and Puerto Rico that are IDeA-eligible. The IDeA program supports three major initiatives, including the IDeA Networks of Biomedical Research Excellence (INBRE). The INBRE implements the IDeA objectives by developing a statewide biomedical research network of doctoral degree-granting research universities and institutes, primarily undergraduate institutions (PUIs), community colleges, and tribal colleges with a multidisciplinary, thematic research focus. The INBRE enhances biomedical research capacity and strengthens the research base by supporting faculty, fellows, and students participating at network institutions. A major objective of INBRE is to provide (1) undergraduate faculty and students with research support and (2) research experiences to students that will serve as a “pipeline” for undergraduate students to continue in biomedical and health research careers. Each INBRE has a required Bioinformatics Core that provides education, mentoring, and tools for researchers and students across the network. This presentation will highlight an overview of the INBRE program and accomplishments made at some of these networks. Various ways to participate in these network opportunities will be described. *All are encouraged to attend, whether or not their institution is in an IDeA-eligible state, as research infrastructure and partnerships fostered in an IDeA-eligible state may be leveraged and connected to other programs.*

Location: Arlington Salon I

- (I-2) **Education Research Programs.** Katina Stapleton, Program Officer, Institute of Education Sciences (IES). The IES mission is to support research that contributes to school readiness and improved academic achievements of all students. Both research and research training grant program solicitations are held yearly. Information about IES programs will be provided, and upcoming solicitations discussed. **Location: Alexandria (2nd level)**

- (I-3) **The NSF Graduate Research Fellowship Program (GRFP).** Ty Mitchell, Program Director, Division of Graduate Education, NSF

The NSF Graduate Research Fellowship Program (GRFP) provides support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering research. Fellowships are awarded through a national competition to senior undergraduates and graduate students, providing three years of funding over a five-year period, usable at any accredited institution in the United States. This information session for university administrators and faculty advisers will provide program updates and practical advice and handouts from an experienced campus administrator on how to help students learn about and apply for the GRFP. Representatives from primarily undergraduate and minority-serving institutions are encouraged to attend, as NSF especially encourages undergraduate seniors, women, members of underrepresented minority groups, persons with disabilities, and veterans to apply. Program information is available at: <https://www.nsfgrfp.org/>.

Location: Manassas (2nd level)

- **(I-4) Undergraduate Research Support from the ACS Petroleum Research Fund.**
Dean A. Dunn, Assistant Director, Office of Research Grants, American Chemical Society

The ACS Petroleum Research Fund (ACS-PRF) is an endowed fund administered by the Office of Research Grants of the American Chemical Society. ACS PRF was created to support “advanced scientific education and fundamental research in the petroleum field.” Since 1954, principal investigators at academic institutions doing petroleum-relevant research in chemistry, geosciences, chemical and petroleum engineering, and materials science have been supported by ACS PRF funding. Research support for faculty in departments that do not offer the PhD degree includes Undergraduate New Investigator (UNI) and Undergraduate Research (UR) grants. Faculty in the first three years of their first appointment as an assistant professor are eligible for UNI research grants. Established faculty in non-doctoral departments may apply for UR research grants. Information on research grant programs, including application materials and submission deadlines, can be found on the ACS PRF website, <https://www.acsprf.org>.

Location: Mount Vernon (2nd level)

- **(I-5) USDA-National Institute of Food and Agriculture’s Education Grant Programs.**
Ariela Zycherman, National Program Leader, USDA – National Institute of Food and Agriculture, Division of Community and Education

The U.S. Department of Agriculture’s National Institute of Food and Agriculture (NIFA) funds a variety of education programs. This presentation will highlight opportunities for undergraduate research, education, and extension projects.

Location: McLean (2nd level)

- **(I-6) ATRD and ISD Programs at the U.S. Department of Education.**
Timothy Duvall, Program Officer, Department of Education, OPE/IFLE

The Advanced Training and Research Division (ATRD) and International Studies Division (ISD) of the International and Foreign Language Education office encompass a variety of programs. Highlighted will be the National Resource Centers, Foreign Language and Area Studies Fellowship Programs, the Centers for International Business and Education, Seminars Abroad, Doctoral Dissertation Research Abroad, Group Projects Abroad, and Undergraduate International Studies and Foreign Language programs.

Location: Arlington Salon VI

- **(I-7) Institute of Museum and Library Services (IMLS).**
Ashley Sands, Senior Program Officer (Office of Library Services)
IMLS distributes more than \$215 million to museums and libraries each year through formula grant, technical assessment, and competitive project-based grant programs. It aims to strengthen the capacity of museums and libraries to support learning and literacy for people of all ages; improve the well-being of their communities; and increase access to information, ideas, and networks. Many projects funded provide opportunities for undergraduate involvement in research, program development and delivery, technical skill-building, and community-engagement experiences. Fiscal Year 2019 Notices of Funding Opportunities are available at <https://www.imls.gov/grants/apply-grant/available-grants>.

Location: Arlington Salon V

11:00 am–12:00 pm **Dialogues Session II**

- **(II-1) Raising Donors: How to Get Started in Generating Private Funding for Your Undergraduate Research Programs. David F. Brakke, Dean and Professor Emeritus, College of Science and Mathematics, James Madison University**
Undergraduate research is a compelling case for many donors, but often faculty and administrators do not know how to get started. In this interactive session, the following topics will be addressed: (1) the development of a case statement, (2) the art of telling stories of the impact of mentored undergraduate research experiences, (3) the ways to make a pitch for funding priorities to potential donors, (4) the importance of stewardship and the way in which one gift can lead to another, and (5) the different ways that gifts can be structured at institutions.
Location: Arlington Salon I

- **(II-2) National Institutes of Health (NIH), National Institutes of Nursing Research and Grant Funding Opportunities. Michelle R. J. Hamlet, Program Director, Division of Extramural Sciences Programs, Symptom Biology; Symptom Science, Genetics and Self-Management Branch, NIH/NINR**
The mission of the National Institute of Nursing Research (NINR) is to promote and improve the health of individuals, families, and communities. To achieve its mission, NINR supports research and research training through grants and fellowships. An overview of the general portfolio of NINR fellowships and grant programs, with a specific focus on the portfolio of programs in the Symptom Science, Genetics, and Self-Management Branch, will be provided.
Location: Mount Vernon (2nd level)

- **(II-3) National Science Foundation Education and Human Resources Directorate Division of Undergraduate Education (NSF EHR/DUE) Funding Opportunities in Teacher Preparation. Karen Keene, Program Director, Division of Undergraduate Education, Education and Human Resources, NSF**
NSF EHR/DUE's Robert Noyce Teacher Scholarship (Noyce) program supports efforts to increase the number of highly qualified STEM teachers and the number of experienced and exemplary teacher leaders in high-need school districts. A brief overview of the four tracks of the Noyce program and the review process for proposals will be presented.
Location: McLean (2nd level)

- **(II-4) National Institute of Standards and Technology (NIST), Academic Research Opportunities and Activities. Brandi Toliver, Managing Program Director, International and Academic Affairs Office (IAAO), NIST**
The National Institute of Standards and Technology (NIST) is the nation's oldest physical science laboratory. Established in 1901 as the National Bureau of Standards, NIST promotes innovation and industrial competitiveness by advancing measurement science, standards, and technology. In carrying out its mission, NIST collaborates with both industry and academia in multiple ways. The session will discuss ways that NIST collaborates, funding opportunities, and strategies for engaging NIST.
Location: Arlington Salon II



- (II-5) **National Endowment for the Humanities (NEH): Opportunities for Research Funding.** **Christopher Thornton**, Director, Division of Research Programs, NEH

This presentation will provide information about National Endowment for the Humanities grant programs open to individual applicants. The discussion will center on fellowships and summer stipend programs.

Location: Arlington Salon V

- (II-6) **Accessing SBIR/STTR Funding.**

Krishan K. Arora, Program Director, Division for Research Capacity Building, NIGMS, NIH

Have you ever wondered how to access funding with industry partners for the Small Business Innovation Research (SBIR), or Small Business Technology Transfer (STTR) competitions? Five federal agencies (Department of Defense, Department of Energy, Department of Health and Human Services (NIH), National Aeronautics and Space Administration, and National Science Foundation) participate in both programs. Also known as “America’s Seed Fund,” these programs collectively are one of the largest sources of early-stage funding for technology commercialization in the United States. Using as an example the programs offered by the NIH, the main categories of support will be reviewed, as well as the best approaches to develop collaborative proposals with industry partners.

Location: Arlington Salon VI

12:00–1:30 pm Lunch and Networking

Location: Arlington Foyer and Salon III

1:30–2:30 pm **Dialogues Session III**

- (III-1) **Bridges to the Baccalaureate and Doctorate Programs, NIH/NIGMS.**

Mercedes Rubio, Program Director, Division of Training, Workforce Development and Diversity

The Bridges to the Baccalaureate Program provides support to institutions to help students make the transition from two-year junior or community colleges to four-year baccalaureate programs, focusing on students from underrepresented backgrounds. The Bridges to the Doctorate Program promotes institutional partnerships between institutions granting a terminal master's degree and institutions that grant PhD degrees in biomedical and behavioral sciences, with the goal to assist students in making the transition from master’s degree programs to PhD programs.

Location: Arlington Salon VI

- (III-2) **Programs in the Office of Science, Workforce Development, Department of Energy (DOE).** **Cindy White**, Program Manager, Office of Workforce Development for Teachers and Scientists, DOE

The Office of Science/Office of Workforce Development for Students and Teachers (WDTS) sponsors several programs enabling undergraduate students at community colleges and four-year institutions, and visiting faculty, to participate in DOE mission science and technology research projects that address some of the most challenging problems facing our nation. In these programs, selected students or faculty are placed in paid appointments at one of 16 participating DOE National Laboratories. This presentation will provide an overview of these opportunities, including the application, review, selection, and placement processes as well as a summary of participant expectations and outcomes. It also will briefly discuss the DOE/Office of Science, its laboratories, and the WDTS mission to support development of the scientific and technical workforce pipeline.

Location: Arlington Salon V

□ (III-3) **Ronald E. McNair Postbaccalaureate Achievement Programs.**

Carmen Gordon, McNair Program Specialist, U.S. Department of Education, OPE

Through the Ronald E. McNair program (known informally as McNair Scholars), funds are awarded competitively to academic institutions to prepare students for doctoral study through engagement in research and other scholarly activities. Discussed will be the types of projects funded through McNair and expected upcoming solicitations.

Location: Alexandria (2nd level)

□ (III-4) **Thinking Strategically About Grants. Linda Freed**, Consultant

What do you need to know and do to be ready to write that first major grant proposal? This session will explore the long-term planning needed for successful grant-seeking, including (1) finding opportunities and determining those that are the “best fit” for your plans, (2) building collaborations and networks for success, (3) developing a timetable for proposal submissions, and (4) positioning yourself competitively in a crowded pool of applicants. (this session also is helpful to prepare for the CUR Dialogues postconference workshop “Beyond the Basics” with Tom Wenzel and Cedric Williams).

Location: McLean (2nd level)

□ (III-5) **NOAA Undergraduate Research Scholarships and Opportunities for Research Grants.**

Marlene Kaplan, Deputy Director of Education, NOAA

NOAA selects 130–150 scholarship students each year studying in NOAA mission fields, including marine and atmospheric sciences, other related STEM fields, social sciences, and STEM education. The Ernest F. Hollings Scholarship supports about 125 students from U.S. institutions. The Educational Partnership Program supports 5–10 students from minority-serving institutions. Scholars receive \$9,500 per year in tuition support for junior- and senior-year and paid summer internships at NOAA facilities across the country. The award provides funds for scholars to present internship results at professional conferences, and many also publish. Data indicate that 100 percent of scholars would recommend the programs to students, and about 70 percent of scholarship students go on to graduate school. The top way that students learn about the scholarships is from their professors. NOAA accepts applications from current sophomores from September through January. Grant opportunities for faculty researchers also will be discussed.

Location: Manassas (2nd level)

□ (III-6) **National Endowment for the Humanities (NEH).**

Jennifer Serventi, Senior Program Officer, Office of Digital Humanities, NEH

The NEH Office of Digital Humanities offers grants to encourage innovation in the digital humanities. In addition to project-based activities, the office funds professional development opportunities on various methods and approaches in the digital humanities for humanities scholars and professionals. In this session, NEH representatives will review how these grant opportunities might support programs that involve undergraduate students in scholarly research and public engagement projects. Building on the conversations from last year’s CUR Dialogues, they also would welcome an opportunity to learn from the audience how the programs of the Office of Digital Humanities might better respond to the needs of the field.

Location: Arlington Salon I

- (III-7) **Mock REU Panel.** **Michelle Bushey**, Program Director, Division of Chemistry, **Lisa Rom**, Program Director, Division of Ocean Sciences, and **Corby Hovis**, Program Director, Division of Undergraduate Education, NSF

Participants in this session, which extends through 3:45 pm, will have the opportunity to read proposals submitted to NSF's Research Experiences for Undergraduates (REU) program and to discuss them in small groups, simulating an NSF proposal review panel. Through the mock review-panel process, participants will gain valuable insights about both NSF's merit review process and the attributes that distinguish a competitive REU site proposal. (*Note: Before the session, participants will be required to read two sample NSF proposals*)

Location: Arlington Salon II

2:45–3:45 pm **Dialogues Session IV**

- (IV-1) **American Educational Research Association (AERA) Grants.**

George L. Wimberly, Director of Professional Development, AERA

The American Educational Research Association (AERA) Grants Program provides small grants and training for researchers who conduct studies of education policy and practice using quantitative methods to analyze the large-scale data sets sponsored by National Center for Education Statistics (NCES) and NSF. This presentation will provide an overview of the program and discuss the grant application process and examples of funded projects.

Location: Alexandria (2nd level)

- (IV-2) **National Endowment for the Humanities (NEH) Division of Education Programs.** **Julia Nguyen**, Senior Program Officer, NEH Division of Education Programs, NEH

The varied programs of NEH Division of Education support the professional development of teachers in national programs and through grants at the local institutional level, as well as supporting the development of curriculum and teaching material. The NEH representative will focus on how these programs might support activities that engage undergraduate students in research.

Location: Arlington Salon I

- (IV-3) **Engaging Your Dean: A Comprehensive, School-Based Approach to Support Grant Writing.** **Jeffrey Osborn**, Dean, School of Science, The College of New Jersey

The School of Science at The College of New Jersey (TCNJ) has developed a comprehensive approach to support grant writing. As a strategic priority, this holistic approach focuses on student, faculty, and institutional success. In particular, the school has been working and investing in efforts to (1) increase awareness of the importance of grant writing, with the goal of creating opportunities and increasing intellectual vitality, and (2) increase proposal submissions and funding for strategic priorities and mission-central initiatives. These efforts have been highly successful at increasing interest in grant writing and at increasing submission rates and funding rates among the school's faculty and programs. The session will include a summary of TCNJ's approach, as well as an interactive component for session attendees to share their experiences and best practices from their own campuses.

Location: Arlington Salon V

- (IV-4) **National Science Foundation, Major Research Instrumentation (MRI) Program.** **Randy L. Phelps**, Staff Associate, Office of Integrative Activities, NSF

The NSF MRI Program supports the acquisition or development of research instrumentation that is, in general, too costly or inappropriate for support through other NSF programs. An overview of the program, recent statistics on award sizes and funding rates, and a brief synopsis of successful strategies will be presented.

Location: Manassas (2nd level)

- (IV-5) **National Science Foundation: Funding Opportunities for Community and Technical Colleges.** **Celeste Carter**, Program Director, Division of Undergraduate Education, NSF.

This presentation is an overview of funding opportunities for community and technical colleges at NSF. The programs include: the Advanced Technological Education (ATE) program; the NSF Scholarships in Science, Technology, Engineering and Mathematics (S-STEM); the SBIR Phase II-CC opportunity; and the Improving Undergraduate Education in STEM (IUSE) programs. The emphasis will be on undergraduate research opportunities that include both traditional academic opportunities as well as industry internships.

Location: Arlington Salon VI

- (IV-6) (*Note: continuation of 1:30–2:30 pm session*) **Mock REU Panel.** **Michelle Bushey**, Program Director, Division of Chemistry; **Lisa Rom**, Program Director, Division of Ocean Sciences; and **Corby Hovis**, Program Director, Division of Undergraduate Education, NSF. Participants in this session, which extends through 3:45 p.m., will have the opportunity to read proposals submitted to NSF’s Research Experiences for Undergraduates (REU) program, and to discuss them in small groups, simulating an NSF proposal review panel. Through the mock review-panel process, participants will gain valuable insights about both NSF’s merit review process and the attributes that distinguish a competitive REU site proposal. (*Note: Before the session, participants will be required to read two sample NSF proposals.*)

Location: Arlington Salon II

3:45–4:00 pm

Break

Location: Arlington Foyer and Salon 3

4:00–5:00 pm

Introduction and Plenary Session

Introduction:

Elizabeth L. Ambos, Executive Officer, Council on Undergraduate Research

Plenary: “Advancing Future Research: Changes to NIH AREA (R15) Programs”

Alexandra Ainsztein, National Institutes of Health, National Institute of General Medical Sciences (NIH/NIGMS)

Location: Arlington Salon III

5:15–7:00 pm

Networking Reception

Location: Arlington Foyer and Salon III



Saturday, February 16, 2019

7:15–8:15 am **Continental Breakfast:**
Location: Arlington Foyer and Salon III

8:30–9:30 am **Dialogues Session V**

- (V-1) **NSF Research in Undergraduate Institutions (RUI).** **Thomas Wenzel**, Professor of Chemistry, Bates College. NSF directorates participate in the Research in Undergraduate Institutions (RUI) activity, which supports research by faculty members of primarily undergraduate institutions (PUIs) through the funding of individual and collaborative research projects. A recipient for several RUI awards will describe what makes an excellent proposal, how to get the most out of an award, and how to establish a track record for future successful applicants. This session will have particular applicability to PUIs.

Location: Arlington Salon I

- (V-2) **Mock IUSE and S-STEM Panel with Andrea Nixon**, Program Director, NSF EHR/DUE, and **Rupa Iyer**, Program Director, NSF EHR/DUE
(Note: a separate registration is needed for this double session; this session runs 8:30–10:45 am).

Participants in this session, which extends through 10:45 am, will have the opportunity to review and discuss proposals submitted to the IUSE and S-STEM programs. Through the mock-panel process, participants will gain valuable insights into the review process and the attributes that distinguish a competitive grant proposal.

Location: Arlington Salon V

- (V-3) **Optimizing the Working Relationships between Faculty Researchers and Sponsored Programs Staff.** **Linda Freed**, Consultant, and **Sidney Johnston**, Assistant Director of Grants, Sponsored Research, and Strategic Initiatives, Stetson University.

This session will be a conversation between campus sponsored programs staff and faculty researchers about the key services and roles of a sponsored programs office (SPO) relative to faculty research with undergraduates. The goal is to generate discussion leading to “takeaway” solutions. Typical SPO services will be identified with the focus on brainstorming strategies for best using or providing those services to advance research programs; increasing external funding opportunities; and ensuring responsible stewardship of extramural funds, especially at small to mid-size institutions.

Location: Arlington Salon VI

9:45–10:45 am

Dialogues Session VI

- (VI-1) **National Science Foundation. Major Research Instrumentation (MRI) Program.**
Thomas Wenzel, Professor of Chemistry, Bates College

NSF research directorates participate in the Major Research Instrumentation (MRI) program. The MRI program enables the acquisition or development of research instrumentation that is, in general, too costly or inappropriate for support through other NSF programs. A recipient of MRI awards and past reviewer for the program will describe the elements of an excellent proposal.

Location: Arlington Salon I

- (VI-2) **Mock IUSE and S-STEM Panel with Andrea Nixon**, Program Director, DUE, NSF and **Rupa Iyer**, Program Director, NSF EHR/DUE. (*Note: a separate registration is needed for this double session; this session runs 8:30–10:45 am*).

Participants in this session will have the opportunity to review and discuss proposals submitted to the IUSE and S-STEM programs. Through the mock-panel process, participants will gain valuable insights into the review process and the attributes that distinguish a competitive grant proposal.

Location: Arlington Salon V

- (VI-3) **Primarily Undergraduate Institutions (PUIs) and Opportunities in the NSF BIO Directorate.** **Cesar Nufio** and **Colette St. Mary**, Program Directors, National Science Foundation Biology Directorate

Participants in this session will learn about funding opportunities within the biology directorate at NSF and will also discuss how competitive proposals are prepared and evaluated. If you are at a primarily undergraduate institution and interested in tips for how to put together a successful proposal, this session is for you!

Location: Arlington Salon II

- (VI-4) **Developing Private Foundation Funding for Research Support.** **Janice DeCosmo**, Associate Vice Provost for Undergraduate Research and Associate Dean of Undergraduate Academic Affairs, University of Washington.

Participants in this session will engage in discussion of ways to approach private foundations for research and/or student program funding. What are some good strategies to use when approaching private foundations? How can you best determine if your research and/or education programs are a good match for private foundation priorities? When is it best to seek private foundation funding, in comparison to federal and state agency grants? These and other topics will be addressed in this session. All disciplines welcomed!

Location: Arlington Salon VI

10:45–11:00 am

Break



11:00 am–12:00 pm

Closing Keynote
Location: Arlington Salon III

Speaker Introduction:

Anne Boettcher, Embry-Riddle Aeronautical University
Past-President, Executive Board of the Council on Undergraduate Research

“Advancing Future Research: Advocacy in the 116th Congress”

Della Cronin, Bose Washington Partners
James Brown, Bose Washington Partners
Maria Iacullo-Bird, Pace University

12:00–12:15 pm

Closing Comments and Adjournment
Location: Arlington Salon III

Elizabeth L. Ambos
Executive Officer, Council on Undergraduate Research

CUR Dialogues 2020
SAVE-THE-DATE
February 13–16, 2020





CUR Dialogues Postconference Workshops

Dialogues Beyond-the-Basics Workshop (BtB)*

Location: Arlington Salon I

Saturday, February 16 1:30–5:30 pm (registration begins at 1:00 pm)

Sunday, February 17 8:00 am-12:00 pm

Facilitators:

Thomas Wenzel
Professor of Chemistry
Bates College

Cedric L. Williams
Professor
Dept. of Psychology; Div. of Neuroscience & Behavior
University of Virginia

***A separate registration is required.**

Dialogues Introduction to Beginning a Research Program in the Natural Sciences (iBRP)*

Location: Alexandria (2nd level)

Saturday, February 16 1:00–5:30 pm (registration begins at 12:30 pm)

Sunday, February 17 7:30 am-5:00 pm

Facilitators:

Kim Frederick
Professor of Chemistry
Skidmore College

Michael A. Palladino
Vice Provost for Graduate Studies
Monmouth University

***A separate registration is required**



Useful Acronyms

AAAS – American Association for the Advancement of Science
ACS PRF – American Chemical Society Petroleum Research Fund
AERA – American Educational Research Association
AREA – Academic Research Enhancement Award
ATRD – Advanced Training and Research Division
BCS – Division of Behavioral and Cognitive Sciences
BIO – Directorate for Biological Sciences
CAREER – Faculty Early Career Development
CEC – Leading to Diversity Coordination and Evaluation Center
CHE – Division of Chemistry
DBI – Division of Biological Infrastructure
DOE – Department of Energy
EHR-DUE – Directorate for Education and Human Resources, Division of Undergraduate Education
GRFP – Graduate Research Fellowship Program
HHMI – Howard Hughes Medical Institute
IAAO – International and Academic Affairs Office
IES – Institute of Education Sciences
IFLE – International and Foreign Language Education
ISD – International Studies Division

MPS/CHE – Directorate for Mathematical and Physical Sciences, Division of Chemistry
MRI – Major Research Instrumentation Program
NCES – National Center for Education Statistics
NEA – National Endowment for the Arts
NEH – National Endowment for the Humanities
NIDA – National Institute for Drug Abuse Research
NIGMS – National Institute of General Medical Sciences
NIH – National Institutes of Health
NIST – National Institute of Standards and Technology
NSF – National Science Foundation
OPE – Office of Postsecondary Education
PUI – Primarily Undergraduate Institution
RCN – Research Coordination Networks
REU – Research Experiences for Undergraduates
RUI – Research in Undergraduate Institutions
SBE – Directorate for Social, Behavioral and Economic Sciences
S-STEM – Scholarships for Science, Technology, Engineering and Mathematics
TRIO – Federal Early Outreach and Student Services Programs
UBE – Undergraduate Biology Education





See You
April 11-13, 2019!
(Register by March 21, 2019)

ncur.kennesaw.edu

POSTERS ON THE HILL 2020

Nothing more effectively demonstrates the value of undergraduate research than the words and stories of the student participants themselves.

In spring 2020, the Council on Undergraduate Research (CUR) will host its 24th annual undergraduate poster session on Capitol Hill. This event will help members of Congress understand the importance of undergraduate research, as they talk directly with the students engaged in these programs.

Encourage your students to apply for the 2020 event. The application period will open in fall 2019.



<https://www.cur.org/what/events/students/poh/>



Keynote Speakers' Biographical Information in Order of Presentation

Iain Crawford is an associate professor of English and faculty director of the University Research Program at University of Delaware. He holds a BA in English and Greek Civilization from the University of Leeds and a PhD from the University of Leicester. His previous academic appointments include vice president for academic affairs and professor of English at the College of Wooster; dean, School of Liberal Arts and professor of English, University of Southern Indiana; and chair and professor of English at Bridgewater State University. His next book (to be published by Edinburgh UP), *Contested Liberalisms: Dickens, Martineau, and the Victorian Press*, places Charles Dickens and Harriet Martineau in dialogue to create a lens through which to examine the development of Victorian journalism in a transatlantic context. Work from this project has appeared in *Nineteenth-Century Literature* and the collections *Charles Dickens and the Mid-Victorian Press 1850–1870*, *Dickens and Massachusetts: The Other America* (U of Massachusetts P) and *Journalism and the Periodical Press in Nineteenth-Century Britain* (Cambridge UP). Crawford recently completed a term as president of the Dickens Society and is currently president of the Council on Undergraduate Research (CUR).

Kim Frederick is professor and chair of chemistry at Skidmore College in New York. She earned her BA (1991) from Lawrence University and a PhD (1996) from Purdue University in analytical chemistry. Prior to her position at Skidmore, she earned tenure at Whittier College, CA, and taught for several years at College of the Holy Cross, Worcester, MA. She has also done sabbatical research at Rensselaer Polytechnic Institute and the National Institute of Science and Technology (NIST); she recently returned from a Fulbright fellowship at University of Tasmania, Australia. Her research, which has been or is currently funded by the National Science Foundation, Research Corporation, and the Camille and Henry Dreyfus Foundation, involves miniaturizing laboratory analysis methods using microfluidic technology. She has supervised more than 100 research students, and their efforts have resulted in publications in journals such as *Analytical Chemistry*, *Applied Spectroscopy* and *Electrophoresis* as well as presentations at national meetings, including the Pittsburgh Conference and the American Chemical Society meeting. Her teaching responsibilities involve courses in general chemistry, instrumental analysis, and first-year seminar. In addition, she has taught courses in environmental chemistry, forensics, quantitative analysis, non-science major courses and participated in cross-disciplinary writing courses. Her curricular development efforts have been funded by the National Science Foundation, Department of Defense, the Pittsburgh Conference and Merck/AAAS. Frederick has been a CUR councilor since 2006 and is currently serving as the chair of the CUR Chemistry Division.

Pushpa Ramakrishna is a program director in the Division of Undergraduate Education at the National Science Foundation. At NSF, she serves as program director for the Advanced Technological Education (ATE) program, S-STEM Scholarship program, and Improving Undergraduate STEM education (IUSE) programs. She is also involved in the HSI program and the STEM Education 2026 initiative at the Division of Undergraduate Education. She is interested in studying the incorporation of convergent or interdisciplinary education into the undergraduate curriculum with a focus on sustainability. Prior to NSF, she was the founder and chair of the Sustainability Instructional Council for Maricopa Community Colleges in Arizona, the co-chair of the Maricopa Sustainability Committee, and director of the Biomedical Research Technology Program at Chandler Gilbert Community College (one of the Maricopa Community Colleges). She won the Maricopa Outstanding Employee of the Year and won the “Innovation of the Year” team award multiple times for sustainability education, service learning, revitalizing the science curriculum and for student learning and outcome assessment. Her teaching repertoire includes courses in biology, biotechnology, and sustainability.

Anne Boettcher is director of the Undergraduate Research Institute and Honors Program at Embry-Riddle Aeronautical University in Prescott, Arizona. She is immediate past-president of CUR and has been a member since 1999. Boettcher has

chaired the Undergraduate Research Programs Division of CUR; co-chaired the URPD conference “Windows of Opportunity for Undergraduate Research,” and served as facilitator and host for several CUR Institutes. Prior to joining Embry-Riddle, she was a professor of biology and undergraduate research program director at the University of South Alabama. While at South Alabama, she served as co-principal investigator for NSF-REU and principal investigator for Merck-AAAS programs, mentored more than 60 undergraduate and graduate research students, and integrated research and ethics components into all of her courses.

David Asai is senior director for science education at Howard Hughes Medical Institute (HHMI), after coming to HHMI in 2008. As a rising high school senior, Asai participated in an NSF-sponsored research experience at the University of Hawai‘i, and he liked it. As an undergraduate, Asai engaged in independent research all 12 quarters and three summers, and he liked it. These opportunities were transformative because of the graduate students who mentored Asai. His current work as senior director for science education is guided by three beliefs: (1) the dynamic demographics of the U.S. population presents the greatest opportunity and the most compelling challenge for U.S. science; (2) all students—regardless of where they come from and where they are going—deserve a meaningful, effective, and positive experience in science through which they will better understand the process of science; (3) making that experience meaningful, effective, and positive is the responsibility of the faculty and administrators who define the institution’s culture. Asai received a bachelor’s degree in chemistry from Stanford University and a PhD in biology from Caltech; he also completed postdocs at Caltech and University of California, Santa Barbara. He was a faculty member at Purdue University for 19 years and spent several years as head of biological sciences. He then spent five years at Harvey Mudd College as the Stuart Mudd Professor and Chair of Biology. Research in the “Asailum” focused on the structural and functional diversity of dyneins. Asai has mentored 11 PhD and 77 undergraduate students.

Patricia Soochan is an HHMI program officer with primary responsibility for HHMI grants to primarily undergraduate institutions. She served as a councilor for the Council on Undergraduate Research and is a contributing writer for the bimonthly newsletter for the American Women in Science. Prior to joining HHMI, she was a science assistant at the National Science Foundation, a science writer for a contractor to the National Cancer Institute, and a research and development scientist at Life Technologies. She received her BS and MS degrees in biology from George Washington University. Soochan came to HHMI in 1995.

Alexandra Ainsztein is a program director in the [Division of Genetics and Molecular, Cellular, and Developmental Biology](#), within the National Institute of General Medical Sciences of the National Institutes of Health. She administers research grants in the areas of chromosome and nuclear structures, and organismal physiology. She is the NIGMS point of contact for the Academic Research Enhancement Awards (AREA) (R15) program. Ainsztein is a biochemist and cell biologist whose research focused on the microtubule cytoskeleton, centromeres, and cytokinesis. Prior to joining NIGMS, she served as a scientific review officer in the NIH Center for Scientific Review from 2001 to 2010. At NIGMS, she has managed a portfolio on membrane trafficking and organelle biogenesis; she was both the program director and scientific liaison for several grants in the NIGMS Protein Structure Initiative; and she has managed the Research Initiative for Scientific Enhancement (RISE program). Ainsztein earned a BA in biochemistry from Brandeis University and a PhD in biochemistry and molecular biology from the University of Florida. She conducted postdoctoral research at Johns Hopkins University, the University of Edinburgh, and NIH’s National Institute of Child Health and Human Development.

Della Cronin is a principal of Bose Washington Partners, a government and public affairs firm in Washington, DC. Cronin brings more than 20 years of experience in education and research policy, legislative and regulatory processes, fund-raising, and public affairs to the firm, having worked for a broad array of education companies and interests. Cronin has managed corporate and national partnerships, communications for a corporate foundation, as well as outreach and public awareness efforts, and worked with the Department of Education to inform college campus officials about policy changes resulting from reauthorization of the Higher Education Act. She organizes Capitol Hill briefings and congressional advocacy days, and

has encouraged groups she works with to integrate social media elements into those events. Her clients are organizations affected by federal K-12, career and technical, STEM and higher education policy, as well as the programs and policies of the federal research agencies. She also is a frequent speaker on the topics of federal education and research policy, as well as the ins and outs of policymaking in Washington, DC. Cronin holds a bachelor's degree in economics with a minor in political science from Virginia Tech.

James Brown is executive director of the STEM Education Coalition, an alliance of more than 700 business, professional, and education organizations, which works to raise awareness in Congress, the Trump administration, and other organizations about the critical role played by STEM education in enabling the United States to remain the economic and technological leader of the global marketplace of the twenty-first century. Prior to joining the coalition, he was assistant director for advocacy at the American Chemical Society. A nuclear engineer by training, he previously worked as a legislative aide for Rep. Doc Hastings (R-WA) and began his career as an engineer with Newport News Shipbuilding, working on aircraft carrier construction. He received a BS from the University of New Mexico and an MS from Penn State, both in nuclear engineering. He also holds an MBA from George Washington University.

Maria Iacullo-Bird is assistant dean for undergraduate research, grants, and special projects, and director of the Dyson College Center for Undergraduate Research Experiences at Pace University. Her administrative responsibilities include overseeing grant programs, leading undergraduate research initiatives, and supporting faculty in grant development and research collaborations. She successfully has authored more than \$6 million in educational, performing arts, capital funding, service learning, and research grants, and has special expertise in social justice projects to benefit low-income, first-generation college students. Her research and teaching have been supported by grants from the NEH, the New Jersey Historical Commission, Project Pericles, and Thinkfinity. Since 2013, she has been a CUR Arts and Humanities Councilor and advocacy representative, and currently chairs the CUR Arts and Humanities Division. In collaboration with CUR Executive Board representative Joseph Trimmer and CUR Executive Officer Elizabeth L. Ambos, Iacullo-Bird is leading outreach to the NEH and foundations to increase both funding support for undergraduate research in the humanities and recognition that the humanities have critical workforce relevance in the twenty-first century. A cultural and public historian, she is a Barnard College graduate and earned her PhD in history from Columbia University.

**Thank you to everyone who attended CUR Dialogues 2019.
Details on how to download presentations from this conference
will be shared with attendees in the coming weeks.**



Questions regarding any event?
Please contact us at cur@cur.org.

CUR Events and Institutes

All events are posted on the CUR website at <https://www.cur.org>.

March 22–24, 2019, Whitworth University – Spokane, WA

Broadening Participation Institute (BPI)- This institute is designed for faculty and administrators to develop (or enhance) their knowledge, skills, and competencies in increasing access, fostering diversity, and creating an inclusive environment for all students. A major goal of the institute is for participating institutions to develop an authentic program in support of broadening participation of students from underrepresented groups. Application deadline is February 21, 2019.

April 11–13, 2019, Kennesaw State University

National Conference on Undergraduate Research (NCUR)- This national conference is dedicated to promoting undergraduate research, scholarship, and creative activity in all fields of study for students.

April 8–12, 2019, Undergraduate Research Week- How will you celebrate? For more information or to submit your event, visit CUR's Undergraduate Research Week website at <https://www.cur.org/resources/urw/showcase/>.

April 29–30, 2019, Washington, DC

Posters on the Hill (POH)- At this evening poster session and reception, students have the opportunity to speak directly to congressional representatives and demonstrate the effect of undergraduate research programs on their lives.

June 27–29, 2019, The Ohio State University, Columbus, OH

Undergraduate Research Programs Conference- CUR's signature professional development conference hosts undergraduate research program leaders, and other staff, faculty and administrators operating, assessing, and leading undergraduate research, scholarly, and creative inquiry programs.

July 11–15, 2019, Kentucky Wesleyan University, Owensboro, KY

Proposal Writing Institute- This four-day institute will bring together faculty and administrators interested in preparing proposals for submission to external funding agencies. It will consist of one-on-one work with a mentor, writing, small-group discussions, and critiquing of proposals. Prior to the institute, participants will be able to access information that will help them begin to draft their proposal. Application deadline is May 31, 2019.

November 8–10, 2019, Trinity University, San Antonio, TX

Creative Inquiry in the Arts and Humanities Institute- This institute will assist campus-based teams in developing transformative opportunities for undergraduate research, scholarship, and creativity (URSC) in the arts and humanities. The goal of the institute is to inform participants about current research on learning outcomes for students engaging in URSC. Application deadline is October 1, 2019.

November 22–24, 2019, Stetson University, DeLand, FL

Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution Institute- The goal of the institute is to give individual, pretenured faculty members the opportunity to learn from and discuss with experienced faculty how to establish and manage a research program with undergraduates. While at the institute, participants will also prepare plans for starting and/or advancing their individual research programs at their respective campuses. A range of topics will be covered during the institute that show ways to achieve career success in undergraduate research. Application deadline is October 15, 2019.

November 15–17, 2019, Miami University, OH

Initiating and Sustaining Undergraduate Research Programs Institute- This institute is designed for campuses that are establishing undergraduate research (UR) programs or centralized undergraduate research offices and those expanding undergraduate research opportunities from a single department to a campus-wide program. Application deadline is October 1, 2019.

Institutes contact: Tavia Cummings, tcummings@cur.org, 202.783.4810x204

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