

Program at a Glance

Subject to change

Thursday, November 14, 2019

Hall of Ideas Room J–10:00–11:00 a.m.
Sigma Xi Chapter Development
Workshop: Money Doesn't Grow on
Trees–Chapter Finances

Hall of Ideas Room J–11:00–Noon
Delegate Orientation

Lecture Hall–1:00–2:30 p.m.
Assembly of Delegates–1

Hall of Ideas Room E–J–2:45–3:45 p.m.
Regional Caucuses

Hall of Ideas Room E–J–4:00–5:00 p.m.
Constituency Caucuses

Lecture Hall–5:15–6:30 p.m.
Assembly of Delegates–2

Hall of Ideas Room J–7:30–8:30 p.m.
Sigma Xi Chapter Development
Workshop: Managing a Healthy Chapter



**Sigma Xi Annual Meeting
& Student Research Conference**
Madison, Wisconsin
www.sigmaxi.org/amsrc19

Thursday events are for Sigma Xi delegates only

Program at a Glance

Friday, November 15, 2019

Subject to change

Life & Health Track	Energy Track	Water Track	Research Enterprise & Professional Development Track	Science Communication, Education, and Public Engagement Track	Research Ethics Track
---------------------	--------------	-------------	--	---	-----------------------

Lecture Hall–8:00–8:30 a.m.
 Welcome and Opening Remarks: **Jamie Vernon**, Sigma Xi, **Geraldine Richmond**, Sigma Xi, and **William Karpus**, University of Wisconsin, Madison

Lecture Hall–8:30–9:30 a.m.
 Plenary Session–Decline and Fall of the Class *Insecta*: Update on the Insect Apocalypse
May Berenbaum, University of Illinois at Urbana-Champaign



<p>Hall of Ideas Room E 9:45–10:45 a.m. Keynote–Challenges of Developing New Vaccines for Neglected Tropical Diseases Peter Hotez, Baylor College of Medicine</p>	<p>Hall of Ideas Room F 9:45–10:30 a.m. Contributed Talks– · Maxwell Zombies · Conflict in Climate Change Mitigation</p>	<p>Hall of Ideas Room G 9:45–10:45 a.m. Virtual Keynote– Smart Sea Level Sensors for Coastal Resilience in Savannah, GA Kim Cobb, Georgia Institute of Technology</p>	<p>Hall of Ideas Room J 10:00 a.m.–Noon Workshop– Part 1 Transitioning from a Technical Mindset to a Technical Leader Mindset Dennis Hess, Georgia Institute of Technology</p>	<p>Hall of Ideas Room H 9:45–10:45 a.m. Keynote– Communication and the Future of Science Dietram Scheufele, University of Wisconsin, Madison</p>	<p>Hall of Ideas Room I 9:45–10:15 a.m. Ethical Issues in Conducting Field Research Richard Miller, Texas A&M University-Kingsville</p>
<p>Hall of Ideas Room E 11:00 a.m.–Noon Contributed Talks - · Human Carrying Capacity · Biological Responses to Pollutants · Free Radicals & Testicular Cancer</p>	<p>Hall of Ideas Room F 11:00 a.m.–Noon Contributed Talks– · Improving Biomass Cookstoves · Advances in Thermal Insulation · Greening Charcoal</p>	<p>Hall of Ideas Room G 11:00 a.m.–Noon Mapping the U.S. Food–Energy–Water Nexus at the Mesoscale: the FEWSION Project and the Creation of the FEW-View™ Visualization System Richard Rushforth, Northern Arizona University</p>		<p>Hall of Ideas Room H 11:00 a.m.–Noon Contributed Talks– · Digital Earth · Service-learning · Aquarium of the Pacific</p>	<p>Hall of Ideas Room I 11:00 a.m.–Noon Harnessing the Humanities for the Anthropocene Problem Alex Levine, University of South Florida</p>

Exhibit Hall A, Booth 14–11:00 a.m.–Noon
 Pre-Presentation Advice Office Hours
Darcy Gentleman, DJG Communications, LLC

Hall of Fame Room–Level 2–1:00 p.m.–4:30 p.m.
 Professional Headshot Photography

Program at a Glance

Friday, November 15, 2019

Subject to change

Life & Health Track	Energy Track	WaterTrack	Research Enterprise & Professional Development Track	Science Communication, Education, and Public Engagement Track	Research Ethics Track
---------------------	--------------	------------	--	---	-----------------------



Ballroom–Noon–1:15 p.m.

Walston Chubb Award for Innovation Talk and Luncheon–
Strategies for Long Life Batteries–Inspiration from Batteries that Power Implantable Medical Devices
Esther Takeuchi, Stony Brook University and Brookhaven National Laboratory

<p>Hall of Ideas Room E 1:30–2:30 p.m. Panel Discussion–Making Environmental Information Matter To Those Who Need It Most Curt Collier, Groundwork USA</p>	<p>Hall of Ideas Room F 1:30–2:30 p.m. Keynote– On the Road to Sustainable Production of Fuels and Chemicals from Biomass Tim Donohue, University of Wisconsin, Madison</p>	<p>Meeting Room G 1:30–2:15 p.m. Multidisciplinary Student Oral Presentations</p>	<p>Hall of Ideas Room J 1:30–2:30 p.m. Workshop– Part 2 Transitioning from a Technical Mindset to a Technical Leader Mindset Dennis Hess</p>	<p>Hall of Ideas Room H 1:30–2:00 p.m. Advancing Science and Serving Society–Enlightenment and the Responsibilities of the Enlightened Bassam Z. Shakhshiri, University of Wisconsin, Madison</p>	<p>Hall of Ideas Room I 1:30–3:30 p.m. Symposium– Framing the Conversation– Scientists and Engineers as Collaborators with Communities to Co-Design Innovative Solutions for Resilience and Sustainability Christopher Papadopoulos, University of Puerto Rico, Mayaguez</p>
<p>Hall of Ideas Room E 2:30–3:30 p.m. Multidisciplinary Student Oral Presentations</p>	<p>Hall of Ideas Room F 2:30–3:15 p.m. Contributed Talks– · Blockchain in the Energy Industry, · Circular Economy</p>	<p>Hall of Ideas Room G 2:30–3:30 p.m. Keynote– Water: Environment and Health (Science and Regulations) Joseph Cotruvo, Joseph Cotruvo & Associates, LLC</p>	<p>Hall of Ideas Room J 2:30–3:30 p.m. Contributed Talks · Careers at PUIs · Technology Education · Light Pollution</p>	<p>Hall of Ideas Room H 2:00–3:30 p.m. Science of Science Communication Panel Discussion– Moderated by Dietram Scheufele, University of Wisconsin, Madison</p>	

Exhibit Hall A, Booth 14–3:00–4:00 p.m.

Presentation Advice Office Hours: Oral Presentations **Darcy Gentleman**, DJG Communications, LLC

Exhibit Hall A–3:30–5:00 p.m.

Professional Poster Session and Career Networking (Refreshments Provided)

Program at a Glance

Friday, November 15, 2019

Subject to change



Lecture Hall–5:00–6:15 p.m.

Plenary Session–Tracking and Analyzing the Effects of Climate Change,
Vint Cerf, Google.

Followed by an interview by **Joe Palca**, NPR

Grand Terrace–6:30–7:30 p.m.

Reception in Honor of Vint Cert

Hall of Ideas Room I–7:45 p.m.–8:45 p.m.

Sigma Xi Chapter Development Workshop: Fruits of Their Labor—Chapter Program Showcase


Exhibit Hall A–8:00–10:00 p.m.

Pre-Student Research Conference session featuring ice breakers, orientation, networking tips, and poster presentation advice by
Darcy Gentleman, DJG Communications, LLC
Janelle Simmons, Sigma Xi

Program at a Glance

Saturday, November 16, 2019

Subject to change

Student Research Conference	Research Enterprise & Professional Development Track	Science Communication, Education, and Public Engagement Track			
Exhibit Hall B—8:00–9:00 a.m. Continental Breakfast (Judges Orientation from 8:00 a.m.–8:30 a.m. in Hall of Ideas Room J)					
Exhibit Hall A—9:00 a.m.–Noon Student Research Poster Session			9:00 a.m.–Noon and 3:30–5:30 p.m. Exhibits—Graduate School Fair		
	Ballroom—Noon–1:15 p.m. Young Investigator Award Talk and Luncheon— Coastal Wetland Blue Carbon—The Best Climate Change Solution You Have Never Heard Of? Ariana Sutton-Grier , University of Maryland, College Park				
Hall of Fame Room—Level 2—1:15–5:15 p.m. Professional Headshot Photography					
Lecture Hall—1:30–2:30 p.m. Keynote—Journalism in the Post-Factual World—Is Telling the Truth Enough? Joe Palca , NPR					
Meeting Room MN 2:30–4:00 p.m. Multidisciplinary Student Oral Presentations		Hall of Ideas Room G 2:30–4:30 p.m. Workshop— Business Not Taught in Science Class Joseph Sabol , Chemical Consultant	Hall of Ideas Room H 3:30–4:20 p.m. A Science Comedian’s Guide to Communicating Science Brian Malow	Hall of Ideas Room I 2:30–5:30 p.m. Workshop— Principles of Slides-Based Talks Darcy Gentleman , DJG Communications, LLC	Hall of Ideas Room J 2:30–3:45 p.m. Radio Pioneers Talk Series Leslie Gruis Vijayanand Kowtha Renato Camarda
	Hall of Ideas Room J 4:30–5:30 p.m. Panel Discussion Our Changing Academic Environments Deborah Good , Virginia Tech		Hall of Ideas Room H 4:30–5:20 p.m. Workshop— Can Social Media Save the Planet? David Shiffman , CEO David Shiffman Science and Environmental Consulting		

Program at a Glance

Saturday, November 16, 2019

Subject to change



Lecture Hall–5:30–6:30 p.m.
John P. McGovern Science and Society Award Lecture
Strategies of Advancing Oceanography, **Ashanti Johnson**, Fort Valley State

Student Presentation Awards

Level 4–6:30–7:00 p.m.
Student Score Sheets Pickup

Grand Terrace–7:00–7:30 p.m.
Reception



- Ballroom–7:30–9:30 p.m.**
Sigma Xi Banquet
- Gold Key Award Ceremony Video
 - William Procter Prize for Scientific Achievement Lecture, How a Sentence Changed Climate Science, Presented by **Ben Santer**, Lawrence Livermore National Laboratory
 - Recognition of Immediate Past-President
 - Student Choice and Student Oral Presentation Awards Announcement
 - Sigma Xi Induction Ceremony

Ballroom–9:30–11:00 p.m.
Entertainment

Program at a Glance

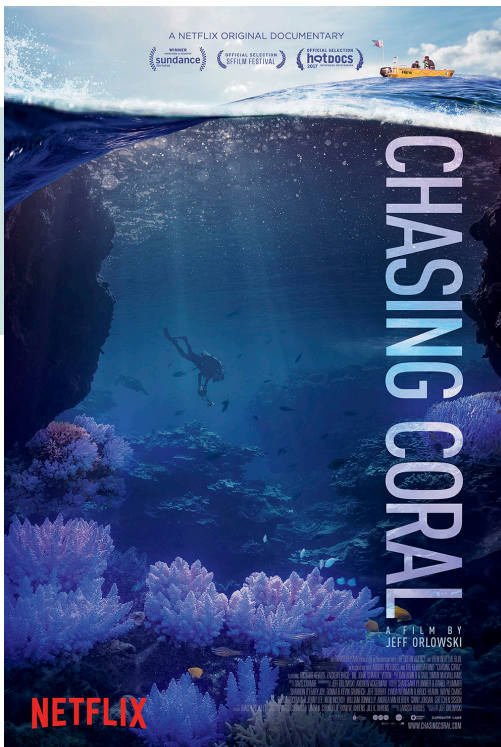
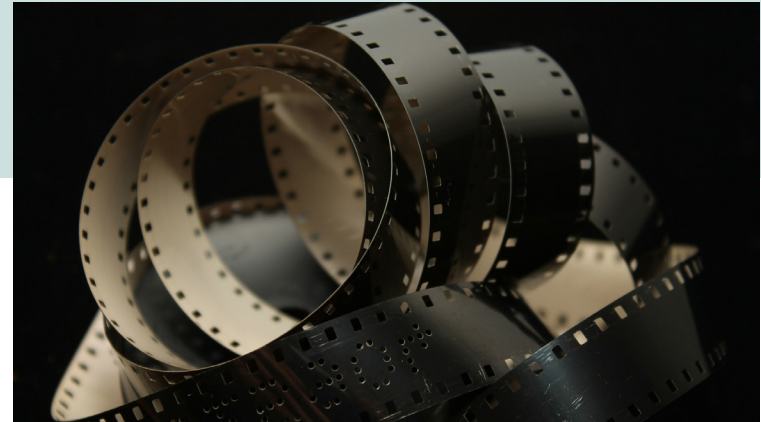
Subject to change

Sunday, November 17, 2019

9:00 a.m.–4:00 p.m. Exhibit Hall
STEM Artwork Exhibit



9:00 a.m.–4:00 p.m. Exhibit and Lecture Halls
STEM Film Presentations



Lecture Hall–12:00–2:30 p.m.
Screening of the Documentary **Chasing Coral**,
followed by panel discussion

Sunday's events are free admission and open to the general public.

Detailed schedule is available on the Sigma Xi Conference App
and at the registration desk.