

Program at a Glance

Thursday, November 5, 2020

Subject to change. Sessions will be recorded and available on demand after the conference. Times shown are in Eastern Time.

RESEARCH CONFERENCE and ART EXHIBIT

**VIRTUAL
EVENT!**

HACKING the BRAIN

The Intersection of Art and Neuroscience

Business Meeting and Assembly of Delegates

1:00 p.m.–2:30 p.m.	Assembly of Delegates I
2:30 p.m.–2:40 p.m.	Break
2:40 p.m.–3:35 p.m.	Regional Caucuses
3:35 p.m.–3:45 p.m.	Break
3:45 p.m.–4:40 p.m.	Constituency Group Caucuses
4:40 p.m.–5:00 p.m.	Break
5:00 p.m.–6:30 p.m.	Assembly of Delegates II
7:00 p.m.–8:00 p.m.	Happy Hour



www.sigmaxi.org/amsrc20

Program at a Glance

Friday, November 6, 2020

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See Track	Move Track	Science Communication, Education, and Public Engagement Track	Research Enterprise & Professional Development Track	Research Ethics Track
9:30–9:45 a.m. Welcome and Opening Remarks: Jamie Vernon and Sonya Smith				
<div>  <div> 9:45–10:30 Keynote Session Barbara Landau, Johns Hopkins University <i>Unforgettable: When an Amnesic Artist Remembers</i> </div> </div>				
10:30–11:00 a.m. — Break				
11:00 a.m.–11:30 a.m. <i>Advancing Art Therapy Research using Contemporary Neuroimaging Technologies</i> Juliet King , The George Washington University	11:00 a.m.–11:30 a.m. <i>Clay Therapy: Sculpting Motions in Time</i> Rachel Sipress , Duluth Folk School	11:00 a.m.–12:00 p.m. Part 1—Lead Impacts on Health and Management of Lead Exposure Sonya Smith , Howard University and Joseph Cotruvo , Joseph Cotruvo & Associates LLC	11:00 a.m.–12:15 p.m. <i>Business Not Taught in Science Class</i> Joseph Sabol , Chemical Consultant 11:00 a.m.–12:00 p.m. Part 1—Transitioning from a Technical Mindset to a Technical Leader Mindset Dennis Hess , Georgia Tech	11:00 a.m. – 12:15 p.m. <i>Look Out for Privacy Pirates! The Need for Ethics in Algorithms</i> Leslie Gruis , NSA (retired) and Ramon Barquin , Barquin Solutions, LLC
12:00–1:00 p.m. — Session Break Join us for free style rap with Baba Brinkman (12:30 – 12:45 p.m.)				
1:00 p.m.–1:30 p.m. <i>How Art Can Heal</i> Girija Kaimal , Drexel University	1:00 p.m.–2:15 p.m. <i>Mini-symposium—Cognitive Abilities and Behavior Conditioning from Bioinspiration</i> Vijay Kowtha , MASER, Inc	1:00 p.m.–2:15 p.m. <i>Lighting up the Senses: Science Communication through Video</i> Allison Coffin , Washington State University and Kirsten (Kiki) Sanford , Broader Impacts Productions 1:00 p.m.–2:15 p.m. Part 2—Lead Impacts on Health and Management of Lead Exposure Sonya Smith , Howard University and Joseph Cotruvo , Joseph Cotruvo & Associates LLC	1:00 p.m.–2:00 p.m. Part 2—Transitioning from a Technical Mindset to a Technical Leader Mindset Dennis Hess , Georgia Tech 1:00 p.m.–2:15 p.m. <i>Policy Engagement without Changing Careers: Local Government Opportunities</i> Arti Garg and Devin Reese , Engineers & Scientists Acting Locally	1:00 p.m.–1:30 p.m. <i>Research Enterprise is Inhibited, and Scientific Ethics are Slighted</i> Don Donderi , McGill University
2:15 p.m.–2:30 p.m. — Break				

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2:30 p.m.–3:00 p.m.

The Walston Chubb Award for Innovation Presentation

Gerard L. Cote, Texas A&M University

*Engineering for Societal Impact: Engagement,
Technologies, and Systems for Monitoring Health
at the Point-of-Care*

3:00 p.m.–3:15 p.m. — Break



3:15 p.m.–4:00 p.m.

Keynote Session

Anjan Chatterjee, University of Pennsylvania

The Aesthetic Brain: On Beauty, Buildings, and Art

4:00 p.m.–4:15 p.m. — Break



4:15 p.m.–5:00 p.m.

Keynote Session

Rachael Cusick, Radiolab

Cracking the Walnut

5:00 p.m.–5:30 p.m. — Break

5:30 p.m.–6:30 p.m.

Fellows of Sigma Xi Recognition Ceremony

'Rap up' by Baba Brinkman

Program at a Glance

Saturday, November 7, 2020

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Hear Track

Science
Communication,
Education, and Public
Engagement Track

Research Enterprise
& Professional
Development Track



9:30 a.m.–10:00 a.m.
Young Investigator Award Presentation
Charles Kamhoua, U.S. Army Research Laboratory
Game Theory on Attack Graph for Cyber Deception

10:00 a.m.–10:45 a.m. Please visit Virtual Exhibit Booths in Exhibit Hall

10:45 a.m.–12:00 p.m.
Mini-symposium
Space/Time: Biologically Inspired
Speech
Vijay Kowtha, MASER, Inc

10:45 a.m.–11:15 a.m.
Teaching High School Biology
through Musical Theater
Judith Erb, Rudolf Steiner School of
Ann Arbor

10:45–11:30 a.m.
A Science Comedian's Guide to
Communicating Science
Brian Malow, Science Comedian

11:15 a.m.–11:45 a.m.
How to Write a Feature Article for
American Scientist
Fenella Saunders, Sigma Xi

10:45 a.m.–12:00 p.m.
Building the Next Generation S&T
Workforce by Equipping Early-Career
Scientists with Cross-Sector Knowledge
and Skills

Adriana Bankston, Journal of Science
Policy & Governance and **Nicole**
Catanzarite, University of Maryland

10:45 a.m.–12:00 p.m.
So, You Want to be a Professor?
Noah Weisleder, The Ohio State
University
Panelists: **Omowunmi Sadik**, New
Jersey Institute of Technology and **Kelly**
Crowe, Mount St. Joseph University

12:00 p.m.–1:00 p.m.

Networking Session, including freestyle rap by **Baba Brinkman** (12:45–1:00 p.m.) | Virtual Exhibit Hall

12:00 p.m.–1:00 p.m.

The Millicent (Mimi) E. Goldschmidt Quarterly Seminar Series, Co-hosted by the Rice University-Texas Medical Center Chapter



1:15 p.m.–1:45 p.m.
The William Procter Prize for Scientific Achievement Presentation
Marcetta Y. Darensbourg, Texas A&M University
The Co-Elements of an Academic/Research Career and the
Development of a New Field in Bioorganometallic Chemistry

1:45 p.m.–2:00 p.m. — Break

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Hear Track	Science Communication, Education, and Public Engagement Track	Research Enterprise & Professional Development Track
	2:00 p.m.–2:30 p.m. The John P. McGovern Science and Society Award Presentation Bonnie J. Dunbar , Texas A&M University <i>Thinking Outside the Sphere</i>	
	2:30 p.m.–3:30 p.m. Networking Session Virtual Exhibit Hall	
	3:30 p.m.–4:15 p.m. Keynote Session Larry S. Sherman , Oregon Health & Science University <i>Every Brain Needs Music: Lecture and Performance</i>	
4:15 p.m.–5:00 p.m. — Break / Please Visit Virtual Exhibit Booths In Exhibit Hall		
	5:00 p.m.–7:00 p.m. 5:00 – 5:30 p.m. Walter Massey, Gold Key Award Presentation and Remarks 5:30 – 6:00 p.m. Walter Massey and Kip Thorne Interview, Moderated by NPR Science Correspondent Joe Palca 6:00 – 6:10 p.m. Break 6:10 – 6:30 p.m. Student Research Conference Awards Announcement and Virtual Induction 6:30 – 6:45 p.m. Remarks by Sigma Xi President-Elect Robert Pennock 6:45 – 7:00 p.m. ‘Rap up’ by Baba Brinkman	

Program at a Glance

Sunday, November 8, 2020

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STEM Art and Film Festival

10:00 a.m.–10:15 a.m.

Opening Remarks

10:15 a.m.–11:00 a.m.

Film Screenings and Art Exhibits in the STEM Art and Film Festival Exhibit Hall

11:00 a.m.–12:15 p.m. #SciCommMake Showcase

Moderator: **Kirsten (Kiki) Sanford**

12:15 p.m.–1:15 p.m. Lunch/Art Exhibits/Film Screenings

1:15 p.m.–1:45p.m. Baba Brinkman Rap Music Videos in the Classroom and Freestyle Rap

1:45 p.m.–2:00 p.m.—Break

2:00 p.m.–3:00 p.m.

As Above as Below Panel Discussion and Exhibits

Moderator: **Esther Mallouh**, Keen on Art

3:00 p.m.–3:15p.m. Break

3:15 p.m.–4:15 p.m.

Film Screenings and Art Exhibits in the STEM Art and Film Festival Exhibit Hall

4:15 p.m.–4:30 p.m. Break

4:30 p.m.–5:00 p.m. Awards and Closing