



2022  
SAN DIEGO, CALIFORNIA  
**NCIC BULLETIN**



## **WELCOME BACK TO NCIC IN PERSON**

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**EDITED BY:**

*Ananya Matewos  
Ashley R. Vaughn*

# Chair Welcome Letter

NCIC Colleagues:

We. Are. Back! After our virtual conference in 2021, we are very excited that NCIC is meeting in person in San Diego! We have the Spinnaker Suite at the Marriott Marquis San Diego Marina with a balcony overlooking the water. Perfect for hanging out and admiring the view.

Our **Suite Party** is planned for **Saturday** this year, April 23th from 4 to 6 PM. Be sure to note the day and time on your calendars.

Our **banquet**, as always, is set for the last night of the conference, which is **Monday, April 25th** (6:00 pm). Join us at Tom Han's Lighthouse. It is a short ride share or taxi away.

We have two fabulous **Research Sessions** (see p 6-7). One on Saturday and one on Sunday.

Please go to the NCIC [webpage](http://www.ncichome.net), [www.ncichome.net](http://www.ncichome.net) to find all the information you need about our first in person meeting since the 50th anniversary in Toronto. Please log on and register and pay your annual dues. Remember the PW is always NCIC and the year (**NCIC2022**).

Please donate to our **Suite Hospitality Fund**. We always appreciate your contributions. You can also make tax-deductible **donations** to the NCIC Foundation. The NCIC Foundation is building and with your help we can endow the Suite for the future of our organization. You can make that donation when you register for the conference through the member's portal, or at any time throughout the year. We have multiple levels of donation possible. Earn a **Challenge Coin**! See page 3 for details.

Remember, we use **Twitter** to communicate with our members. Use the hashtag **#NCIC2022** to blast out news about your sessions at AERA, share pictures of you and your students at conference events, sightseeing, or just keep tabs on our member activities while in San Diego.

We are so excited to be together again. This is going to be an amazing conference, please join us in San Diego!

*Gale Sinatra and Doug Lombardi*  
NCIC Board Co-Chairs

A Note From **Doug**:

Thanks so much to Gale for her many, many years of service as NCIC Co-Chair. She kept the Good Ship NCIC afloat during the pandemic, leading us to be a more inclusive, diverse, equitable, and professional organization. We are forever grateful for her amazing leadership!

# NCIC FOUNDATION UPDATE



EARN YOUR  
CAPITAL  
CAMPAIGN  
COIN



Like last year, there is little to report concerning the NCIC Foundation and our 50-for-50 capital campaign. No new gifts were made, and members continue to pay on existing pledges. To help us reach our overall goal, please consider “leveling up” on your current commitment or, if you haven’t made a gift yet, earn your NCIC challenge coin in San Diego with a gift at the Ensign level of \$250. As a reminder, the lifetime giving levels are:

Admiral	\$10,050
Commodore	\$7,500
Captain	\$5,000
Commander	\$2,500
Lt. Commander	\$1,050
Lieutenant	\$500
Ensign	\$250

# Suite Schedule

## Wednesday, April 20th

5:00 PM Suite Opens to Suite Guests at the  
Marriott Marquis San Diego Marina  
Spinnaker Suite

## Thursday, April 21th

10:00 AM Suite Opens to NCIC Members  
5:00 PM Happy Hour

## Friday, April 22th

10:00 AM Suite Opens to NCIC Members  
5:00 PM Happy Hour  
5:30 PM NCIC Board Meeting (Board Members only)

## Saturday, April 23th

10:00 AM Suite Opens to NCIC Members  
1:00-3:30 PM Research Session I  
4:00 – 6:00 PM Suite Reception

## Sunday, April 24th

10:00 AM Suite Opens to NCIC Members  
10:00 AM-12:00 PM Research Session II

## Monday, April 25th

10:00 AM Suite Opens to NCIC Members  
4:00 PM NCIC Business Meeting  
6:00 PM NCIC Banquet, Tom Han's Lighthouse

## Tuesday, April 25

11:00 AM Suite closes. See you in Chicago!



# NCIC

## SUITE

## RECEPTION



**Saturday April 23, 4-6 PM**

*Marriot Marquis Spinnaker Suite*

# *JOIN US FOR THE ANNUAL* **NCIC BANQUET**

**Tom Ham's Lighthouse**

**Monday, April 25th  
6-9pm**

**2150 Harbor Island Drive  
San Diego, CA 92101**



# *National Consortium for Instruction and Cognition 2022 Research Program*

Presentation Session 1; Saturday, April 23; 1:30 – 3:30pm

Marriott Marquis San Diego Marina, NCIC Suite (Room TBD), San Diego, CA

## **The efficacy of a graduate-level methods course in preparing science teachers for urban school contexts**

Mona Baniahmadi, Duquesne University

Shondricka Burrell, Duquesne University

## **Middle School Students Experiences of Learning About Seasons Using a Spatial Curriculum**

Archana Dobarra, Temple University

## **Biological evolution learning and computational thinking: Enhancing understanding through integration of disciplinary core knowledge and scientific practice**

Dana Christensen, Stockton University

Doug Lombardi, University of Maryland

## **The Predictive Characteristic of Students' Evaluations of Scientific Plausibility Judgments**

Timothy Klavon, Black Hills State University

Nancy Gans, University of Maryland

Doug Lombardi, University of Maryland

Janelle M. Bailey, Temple University

## **Students' Engagement in Scientific Practices and Agency During Science Learning: A Social Network Analysis**

Joshua Jaffe, University of Maryland

Doug Lombardi, University of Maryland

Svetha Mohan, Tulane University

Ananya Matewos, St. Norbert College

## **Evaluating Students' Explanations of the Plausibility of Models to Explain Scientific Phenomena**

Carla McAuliffe, TERC

Doug Lombardi, University of Maryland

## **Sisters in STEM: Facilitating STEM Retention for Undergraduate Women of Color**

Vivian Zohery, University of Maryland

## **Do Graphics Matter? A Study on Conceptual Change and Engagement of Added Graphics Within a Dyslexia Refutation Text**

Tiffany Peltier, University of Oklahoma

Session I Chair & Discussant:

Dr. Gale Sinatra

University of Southern California, Los Angeles

# *National Consortium for Instruction and Cognition 2022 Research Program*

Presentation Session 2; Sunday, April 24; 10:00am – 12:00pm

Marriott Marquis San Diego Marina, NCIC Suite (Room TBD), San Diego, CA

## **Student and Faculty Perspectives on Plagiarism in Higher Education**

John Chancey, Oklahoma State University - Oklahoma City

Candace Thrasher, Oklahoma State University - Stillwater

Virginia Smith, Oklahoma Christian University

## **An Alternative Structure of Refutational Texts: Investigate Different Formats of Refutational Texts on Conceptual Change**

Gan Jin, Washington State University - Pullman

Robert W. Danielson, Washington State University - Spokane

Onur Ramazan, Washington State University - Pullman

## **Assessing the State of Reporting, Quality, and Reproducibility of Meta-Analyses in Educational Psychology Research**

Hongyang Zhao, University of Wisconsin - Milwaukee

Korinthia Nicolai, Virginia Commonwealth University

Alison Koenka Virginia Commonwealth University

Jason C. Chow, University of Maryland

## **Testing The Validity of The Multimedia Principles of Learning in Various Digital Texts**

Jannah Fusenig, University of Maryland

Patricia Alexander, University of Maryland

## **Academic Writing Interventions in Higher Education: A Systematic Review**

Julianne Van Meerten, University of Maryland

Susan De La Paz, University of Maryland

## **Female Engineering Students' Leadership Development in Female-Only Groups**

Mihee Park, Pennsylvania State University

Meg Handley, Pennsylvania State University

Dena Lang, Pennsylvania State University

John Jongho Park, Pennsylvania State University

## **A New Vision for Leadership Development for Sustainable Development Through the Interconnection of Leadership Identity and The UN 17 Sustainable Development Goals**

Juliana Dominick, Pennsylvania State University

Mihee Park, Pennsylvania State University

Nathan Choe, George Washington University

John Jongho Park, Pennsylvania State University

Session II Chair & Discussant:

Dr. Marcy Driscoll

Emerita, Florida State University, Tallahassee



# LAB SPOTLIGHT

## Reading + Learning Lab

Lab Director: Dr. Panayiota Kendeou

**Focus:** The Reading + Learning Lab investigates the relations amongst language and memory, with a focus on understanding and improving learning. In addition to these core issues, the lab is also involved with the development of educational technology to support large-scale interventions and assessments.

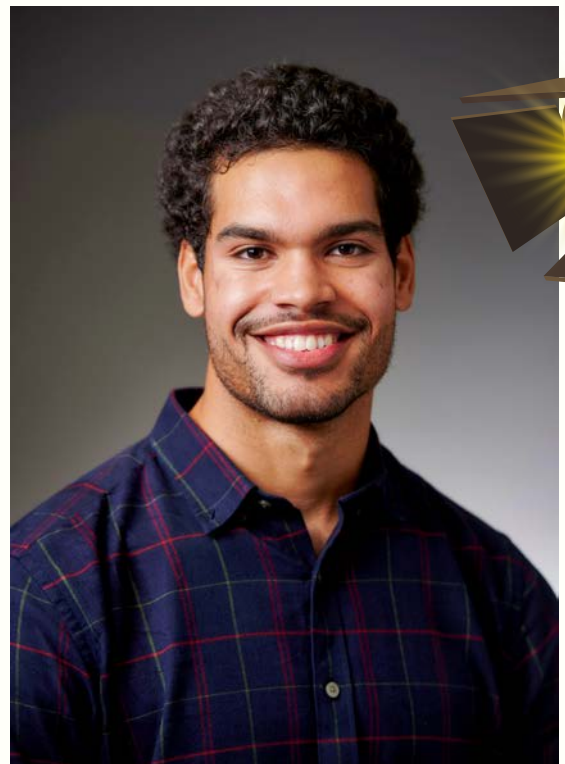


### Spotlighted Projects:

- *Misinformation Drivers* - Dr. Kendeou recently contributed to a large review of the psychological drivers of misinformation, published in Nature Review Psychology. The article described the cognitive, social, and affective factors behind misinformation endorsement, as well as the psychological barriers to misinformation correction.



“The Fauci Effect” - Reading + Learning Lab graduate student Victoria Johnson is interested in the influence of multimodal messages on knowledge revision and misinformation debunking. Specifically, she is investigating the extent to which messages from reputable sources, such as Dr. Anthony Fauci, influence knowledge revision of COVID-19 misinformation.



“Inference Galaxy” - The Inference Galaxy is a suite of online tools for K-2 that teaches inference-making, a core language comprehension strategy. Reading + Learning Lab graduate student Joseph Burey is currently investigating the extent to which the Tier 1 kindergarten program, ELCII, closes performance gaps in minoritized student populations.

# NEW FACULTY

## *Tim Klavon*



Dr. Tim Klavon has been appointed to an Assistant Professor of Science Education position in the School of Education at Black Hills State University beginning in the Fall semester of 2021. While at BHSU, Tim will be teaching elementary and secondary science methods, as well as other education courses. He will also be working with the Sanford Underground Research Facility (SURF) to strengthen the relationship between the School of Education and SURF. Tim will also be continuing to work with the SLRG team on various research projects.

## *Nathan Hawk*

Dr. Nathan Hawk joined the faculty of Texas A&M University in July 2021 as a Clinical Assistant Professor, in the Department of Teaching Learning and Culture. Dr. Hawk's research is in the intersection of technology integration, student use of technology, and social-emotional learning within mathematics classrooms. He examines how self-beliefs such as attitudes about technology, values beliefs about technology and similar self-perceptions such as self-efficacy more contextualized. He also explores how various self-efficacy beliefs influence mathematics achievement among the at-risk online charter high school populations.





# NCIC MEMBER UPDATES

## Gale Sinatra



Gale Sinatra and Barbara Hofer's new book *Science Denial: Why It Happens and What to Do About It* was released in July, 2021. For all things *Science Denial* visit their website [www.sciencedenialbook.com](http://www.sciencedenialbook.com). Also be sure to use the special offer on page 15 to purchase your copy before NCIC so the author herself can sign it!

On January 28, 2022, the National Academy of Education announced Dr. Sinatra as one of 17 new members in this year's class! The mission of the National Academy is to advance high-quality research that improves education policy and practice. Gale was among U.S. members and internal associates selected based on their portfolios of education-related research.



## Ananya Matewos, Ben Torsney, & Doug Lombardi

New Book Chapter from NCIC Colleagues - Ananya Matewos, Ben Torsney, and Doug Lombardi entitled -

*Psychological Perspectives of Climate Equity:  
Reducing Abstraction and Distance  
through Engaged Empathy*



## Marie Lippmann



Dr. Marie Lippmann received CSU, Chico's Professional Achievement Honors Award in recognition of her outstanding scholarship and mentoring activities.

Dr. Lippmann and her husband, Meher, are also excited to welcome a new little family member in November 2022!



# NCIC MEMBER UPDATES

## Marcus Johnson



In Spring 2021, Marcus Johnson was promoted to Full Professor at the University of Cincinnati. In July 2021, Marcus joined the Virginia Tech School of Education as a professor of educational psychology and as the Associate Director of the school's Office of Educational Research and Outreach. In addition to his exciting new position, Dr. Johnson has two new book chapters out: *Teaching Learning for Effective Instruction (vol. 3): Strategies and Challenges to Teaching for Conceptual Learning* with co-authors \*Imogen Herrick, \*Ashley Vaughn, \*Suzanne Jones, & Sydnie Schoepf and *Teaching Motivation for Student Engagement: Common misconceptions and challenges of motivation principles* with co-authors \*Ashley Vaughn & \*Gita Taasoobshirazi.

\*NCIC member

## Daniel H. Robinson

New Book from NCIC Colleague Daniel H. Robinson: *Bloody Mary for the AERA Attendee's Soul*. Like Chicken Soup for the educational academic's soul, but in the spirit of AERA, this book is more of a Bloody Mary for the AERA attendee's soul. This book helps conference goers get more out of the AERA experience as well as avoid common pitfalls. For more details see page 16. Daniel will be signing copies at the IAP booth during AERA in San Diego! Stop by and get your copy signed.



## Imogen Herrick



Imogen Herrick was awarded the 2021 APA Division 15 Graduate Student Research Award. In 2020, she and Ananya Matewos were recipients of an APA Division 15 Special Grant for their project *"Let's Get Heated": Socioscientific Data Talks to Promote Student STEM Motivation and Engagement Through Social Justice Lens*. Imogen is also excited to announce that she and Zane Wilson were married in June, 2021 and son Bixby joined the family in August!



# Gathering NCIC STORIES



## NCIC Historian

MARCY DAVIS

In the coming year I will be contacting NCIC members to schedule 30 minutes or so with me on zoom to discuss NCIC history. I would like to hear from both older and newer members of NCIC. I hope at some point these stories can be placed into an online book and available to all members. Thanks in advanced for your time!

# Diversity and Inclusion

*A Message from NCIC Leadership*

BY ANANYA MATEWOS AND GALE SINATRA

Since 2020, we have as an organization, been reflecting on persistent societal challenges, especially those that impact our most vulnerable communities. Given the social inequities that create disparate outcomes in the face of these challenges we continue to ask how we can do better as an NCIC community of scholars. We provide our continued statement of reflection from past years as a starting point for conversations as we move forward:

Our NCIC family values mentoring future generations to become great scholars through a warm and welcoming academic network. We do these things well and that is something to celebrate. However, to do this exceptionally well we must be reflective of who we are as an organization in light of the current social climates where there are broader reckonings taking place around historical and systemic racism and inequities that persist both in and beyond academia. We must consider explicitly examining the ways in which we create an organization that can truly embody inclusivity, anti-racism, and nurture the diversity of its growing membership.

First, let us take stock of who we are and what we are doing as an organization. We began as a group of colleagues that went on to mentor their own students, forming a rich tapestry of traditions wherein new generations of scholars become part of an extended academic family. These traditions are commendable, as they confer academic and social capital to future generations. Now, we must reflect on our responsibility to extend that capital in inclusive and intentional ways moving forward.

Next, we need to as an organization ask ourselves hard questions in order to be reflective about the ways in which our practices may or may not be aligning with NCIC's diversity and inclusion stance:

- Who do we invite into our organization and how can we extend invitations to broaden our membership to be more inclusive?
- How do we assure that the Suite is a safe and welcoming place where all members and guests feel comfortable?
- What do we do to extend our mentoring network to help students nontraditional to academia persist when we are confronted with challenges?

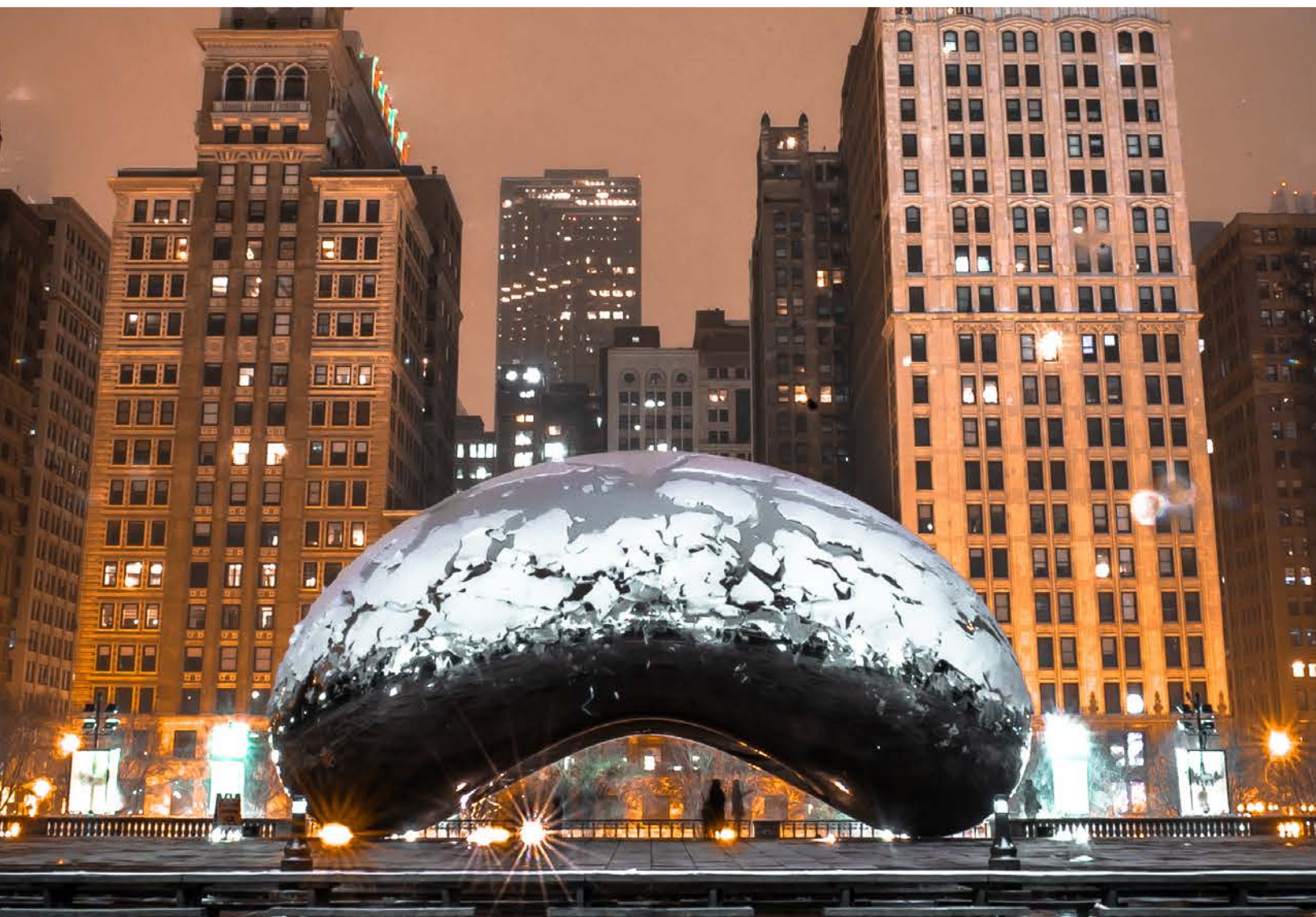
As an organization we can position ourselves to actively work against social injustices by agreeing to listen, learn and grow together. We can as members condemn discrimination and commit to creating a more just and inclusive community. We can celebrate our differences and devote ourselves to purposeful actions in mentoring and teaching future generations of scholars the importance of recognizing each other's humanity.

As such - we as NCIC leadership pledge to continue to work towards the following:

- Hold a virtual facilitated discussion/workshop with our members and leaders about how NCIC can be more inclusive moving forward.
- Investigate the adoption of a meeting conduct policy.
- Create a harassment reporting system and ally program so that the Suite will be a safe and welcoming environment for everyone.
- Update our website and bylaws to include additional value statement(s) to explicitly embrace our diversity as part of the strength and goal of NCIC.
- Encourage faculty to sponsor a graduate student to attend the NCIC banquet annually.
- Commit to free registration for all students as soon as the NCIC Foundation meets its goal of supporting the Suite.



**SEE YOU NEXT YEAR  
IN THE WINDY CITY!  
CHICAGO  
2023**



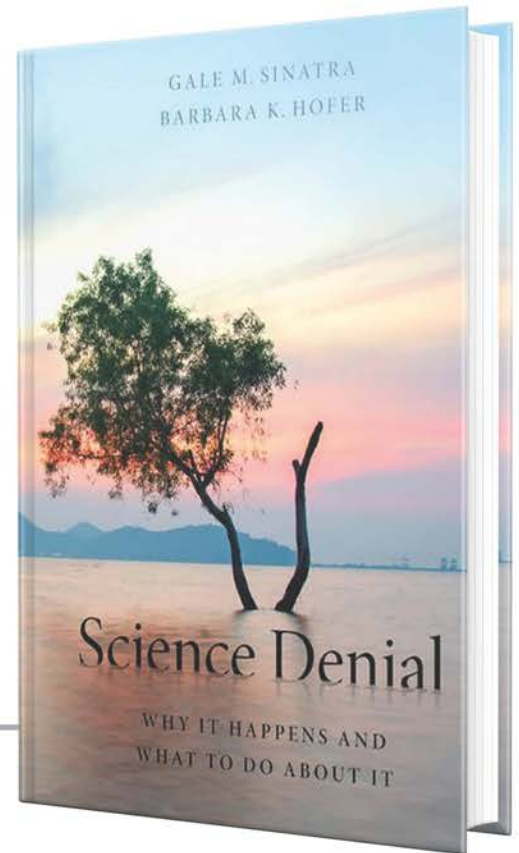


# Science Denial

*Why It Happens and  
What To Do About It*

Save 30% with promo code

**ASPROMP8** on [oup.com/academic](http://oup.com/academic)



- Offers psychological explanations for why people deny science
- Provides solutions for individuals, educators, science communicators, and policy makers
- Allows individuals to examine their own thinking as well as that of others and to become more vigilant about these pitfalls

**Gale M. Sinatra** is the Stephen H. Crocker Professor of Education and Psychology at the Rossier School of Education at the University of Southern California, where she directs the Motivated Change Research Lab. She received her B.S., M.S., and Ph.D. in psychology from the University of Massachusetts, Amherst.

**Barbara K. Hofer** is a Professor of Psychology Emerita at Middlebury College and is a Fellow of the American Psychological Association. She received her Ph.D. in psychology and education from the University of Michigan and an Ed.M. in human development from Harvard University.

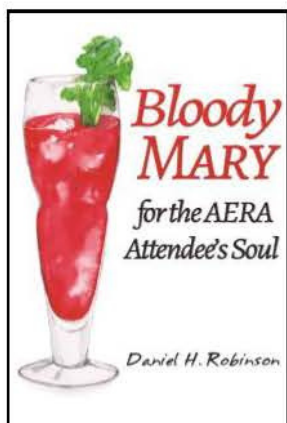
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### **Bloody Mary for the AERA Attendee's Soul**

By **Daniel H. Robinson**, *The University of Texas at Arlington*

This book is intended to be sort of a Chicken Soup for the educational academic's soul. But, in the spirit of the annual meeting of the *American Educational Research Association (AERA)*, this book is more of a *Bloody Mary for the AERA attendee's soul*. As you likely know, one of the many suggested cures for a hangover is a *Bloody Mary* (it may not cure the hangover and could make it worse – but it seems like a good idea). The AERA conference experience for the uninformed amateur is similar to a hangover – symptoms may include confusion, nausea, headache, fatigue, etc., but without the alcohol. This book has two goals. One is to help you to get more out of the annual experience most of us refer to simply as “AERA,” and less of the negative experiences. The second is to help the beginning academic to avoid the pitfalls the author has experienced and hopefully be more successful. To do this, chapters go back and forth between telling an academic story and providing academic advice.

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**CHAPTER 3:** What Is AERA Anyway?

**CHAPTER 4:** From Kiewra to Kulhavy

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**CHAPTER 6:** The Awakening

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