



SciTS

CONFERENCE 2018
PROGRAM



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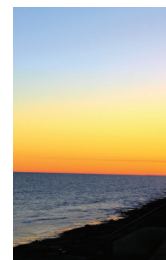
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Science of Team Science

C O N F E R E N C E

May 21-24, 2018

**Moody Gardens Convention Center
Galveston, Texas**



WELCOME



CONFERENCE OVERVIEW

Public health, social, technological, and environmental problems impacting our world are complex, and we are increasingly able to address them through scientific pursuit. This type of scientific challenge necessitates cross-disciplinary engagement and collaboration, and it calls for longer-term interaction of groups of investigators: team science. Such team-based research collaborations are an essential feature of a robust translational research enterprise.

The emerging science of team science (SciTS) field encompasses both conceptual and methodological strategies aimed at understanding and enhancing the processes and outcomes of collaborative, team-based research. The SciTS field is concerned with understanding and managing circumstances that

facilitate or hinder the effectiveness of collaborative research, as well as evaluating the outcomes of collaborative research. Its principal units of analysis are the research, training, and community-based translational initiatives implemented by both private and public sector organizations. The SciTS field focuses on understanding and enhancing the antecedent conditions, collaborative processes, and outcomes associated with team science initiatives. These outcomes include scientific discoveries, educational outcomes, and translations of research findings into new practices, patents, products, technical advances, and policies.

CONFERENCE OBJECTIVES







The annual SciTS conference:

- serves as a point of convergence for team science practitioners and investigators studying research teams
- engages funding agency program staff to provide guidance on developing and managing team science initiatives, and
- affords data providers and analytics developers insight into team tracking and analysis needs.



SCITS 2018 CONFERENCE - AT A GLANCE






MONDAY 05/21/2018

8am	9am	9:30am	10am	10:30am	11am	11:30am	12pm	12:30pm	1pm	1:30pm	2pm	2:30pm	3pm	3:30pm	4pm	4:30pm
Continental Breakfast	WORKSHOPS - AM								Lunch Buffet Ballroom	WORKSHOPS - PM						
	Registration	Effectiveness Through Engaging Individual Motivation  Gaetano R. Lotrecchiano, EdD, PhD Lead Facilitator # M1.1 Salon H					How to Write Research Integration and Implementation Roles into Grants and Position Them Within Organizational Structures  Christine Ogilvie Hendren, PhD Lead Facilitator # M2.1 Salon H									
		Understanding and Evaluating Healthcare Multidisciplinary Teams in a Natural Setting  Tayana Soukup, PhD Lead Facilitator # M1.2 Vine					Building the Capacity for Effective Team Science with Interdisciplinary Translation  Andi Hess, MS Lead Facilitator # M2.2 Vine									
		Reflective Consensus Building on Wicked Problems with the Reflect! Platform  Michael Hoffmann, PhD Lead Facilitator # M1.3 Ivy					"Manage the Research, Not the Researchers" Sign-Flow: A Framework for Proactive Collaborative Leadership  Derek W. Wade Lead Facilitator # M2.3 Ivy									

TUESDAY 05/22/2018

8am	9am	9:30am	10am	10:30am	11am	11:30am	12pm	12:30pm	1pm	1:30pm	2pm	2:30pm	3pm	3:30pm	4pm	4:30pm
Continental Breakfast	# T1.1 Welcome & Featured Speaker James Sallis, PhD Ballroom		SciTS Recognition Awards Ballroom	Networking Break	# T1.2 Thematic Paper Sessions/Panels Salon G, Salon H, Vine & Ivy		Lunch Buffet Ballroom # T1.3 Featured Speaker Anita Williams Woolley, PhD		# T2.1 Thematic Paper Sessions/Panels Salon G, Salon H, Vine & Ivy		Networking Break	# T2.2 Thematic Paper Sessions/Panels Salon G, Salon H, Vine & Ivy		Networking Break		


WEDNESDAY 05/23/2018

8am	9am	9:30am	10am	10:30am	11am	11:30am	12pm	12:30pm	1pm	1:30pm	2pm	2:30pm	3pm	3:30pm	4pm	4:30pm
Continental Breakfast	# W1.1 Welcome & Featured Speaker  Laurie R. Weingart, PhD Ballroom			Networking Break	# W2.1 Featured Panel  Edward T. Palazzolo, PhD Kara L. Hall, PhD  Michael O'Rourke, PhD  Maritza Salazar, PhD  Ballroom			Lunch Buffet Ballroom Emerging Scholars Luncheon Salons F & G		# W2.2 Thematic Paper Sessions/ Panels Salon G, Salon H, Vine & Ivy			Networking Break	# W2.3 Thematic Paper Sessions/Panels Salon G, Salon H, Vine & Ivy		

THURSDAY 05/24/2018

8am	9am	9:30am	10am	10:30am	11am	11:30am	12pm	12:30pm	1pm	1:30pm	2pm	2:30pm	3pm	3:30pm	4pm	4:30pm	5pm	5:30pm	
Field Trip NASA (Lunch & Transportation Included)																			
Field Trip Galveston National Laboratory (Lunch & Transportation Included)																			
Team Science Training Welcome & Status of Team Science Ballroom			Team Science Training: Track 1 (Transformational Leadership Skills for Trans. Science)						Ivy	Team Sci Training Lunch Ballroom									
			Team Science Training: Track 2 (Brainstorming for Innovation in Team Science)						Vine										

5 pm 5:30pm 6 pm 6:30pm 7 pm 7:30pm 8 pm 8:30pm

Networking Break	# M 2.4 Welcome & Opening Featured Speaker  Peter Hotez, MD, PhD Ballroom	Poster Session & Happy Hour Salons B & C	Networking Dinner & Reception Ballroom
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5 pm 5:30pm 6pm 6:30pm 7 pm 7:30pm 8 pm

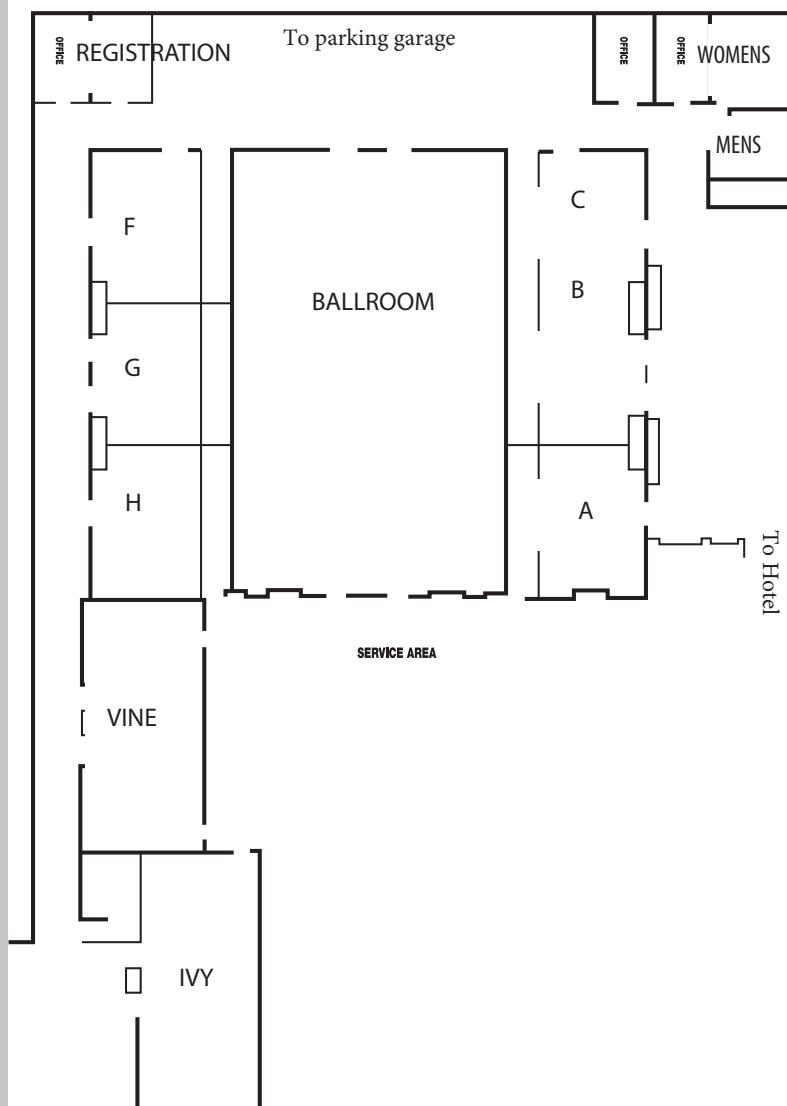
# T2.3 Thematic Paper Sessions/ Panels Salon G, Salon H, Vine & Ivy	 # T2.4 Knowinnovation Sponsored Workshop/Dinner Ballroom
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5 pm 5:30pm 6pm 6:30pm 7 pm 7:30pm 8 pm

Closing Session	CTSA Dinner Ballroom
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pm 6 pm 6:30pm 7 pm 7:30pm 8 pm

CONFERENCE CENTER



FEATURED SPEAKERS

BALLROOM

Our Featured Speakers will present in the Main Ballroom of the Moody Gardens Conference Center on May 21, 22, and 23.



JAMES SALLIS, PHD

James Sallis, Ph.D., is a distinguished professor emeritus in the UCSD School of Medicine's Department of Family Medicine and Public Health. Recently, Dr. Sallis joined the Australian Catholic University in Melbourne as a Professorial Fellow. In 2016, he served as the president of the Society of Behavioral Medicine, and he is a member of the National Academy of Medicine. His work, including multiple NIH-funded projects, focuses on the impact of environmental factors on health behaviors like physical activity. Dr. Sallis was instrumental in launching the field of Active Living Research, which stimulated interdisciplinary team science among health researchers and built environment researchers. At this year's conference, he will discuss lessons learned about team science based on his experiences developing interdisciplinary teams and building an interdisciplinary field. He will share his thoughts on building and sustaining team science as well as confronting institutional and professional challenges.



LAURIE R. WEINGART, PHD

Laurie R. Weingart, Ph.D., is the Richard M. and Margaret S. Cyert Professor of Organizational Behavior and Theory and Interim Provost at the Tepper School of Business, Carnegie Mellon University. Dr. Weingart's research examines negotiation, conflict, and innovation in cross-functional teams. Dr. Weingart has published more than 60 articles and book chapters in the fields of management, social psychology, industrial psychology, cognitive psychology, and economics. Dr. Weingart served as Chair of the Conflict Management Division of the Academy of Management (2001), the President of the International Association for Conflict Management (2003-2004), and the Founding President of the Interdisciplinary Network for Group Research (2007 – 2012). She served as co-editor of the Annals of the Academy of Management (2013-2017). At this year's conference, she will discuss the role of conflict in interdisciplinary teams.



PETER HOTEZ, MD, PHD

Peter Hotez, M.D., Ph.D., is a global health advocate who focuses on vaccine development for neglected tropical diseases. Dr. Hotez is the founding dean of Baylor College of Medicine's National School of Tropical Medicine, and among his numerous additional roles, he serves as the Director of Texas Children's Hospital Center for Vaccine Development and as the Baker Institute Fellow in Disease and Poverty at Rice University. He is an elected member of the National Academy of Medicine, and in 2014 he was selected by the US State Department and White House as a US Science Envoy to advance science and vaccine diplomacy in the Middle East and North Africa. He also co-founded the Global Network for Neglected Tropical Diseases as part of the Clinton Global Initiative. At this year's conference, he will discuss his experiences as US Science Envoy for the Obama administration, and he will address how science, technology and innovation emanating from team science could be used as tools of vaccine diplomacy and economic growth.



ANITA WILLIAMS WOOLLEY, PHD

Anita Williams Woolley, Ph.D., is an Associate Professor of Organizational Behavior & Theory at Carnegie Mellon University's Tepper School of Business. Dr. Woolley's research and teaching interests include collaborative analysis and problem-solving in teams, online collaboration and collective intelligence, and managing multiple team memberships. Her research has been published in numerous journals including Science, Organization Science, the Academy of Management Review, and the Journal of Organizational Behavior, and she has received funding from institutions including the National Science Foundation, the U.S. Army Research Office, and private corporations. She is currently a member of the Academy of Management, the Interdisciplinary Network for Group Research, and the Association for Psychological Science, and she is a Senior Editor at Organization Science and serves on the advisory board for Human Computation. At this year's conference, she will discuss Collective Intelligence in Scientific Teams.



FEATURED PANELISTS

BALLROOM

Our Featured Panelists will present in the Main Ballroom of the Moody Gardens Conference Center on May 23rd.



EDWARD T. PALAZZOLO, PHD

Edward T. Palazzolo, Ph.D., is the Program Manager for the Army Research Office's fundamental research program on Social and Cognitive Networks. The goal of the Social and Cognitive Networks program is to understand human behaviors and cognitive processes as part of collective-level phenomena with an emphasis on high performance teams and computational social science.

Dr. Palazzolo served on the faculty at The Ohio State University's School of Communication, Arizona State University's Hugh Downs School of Human Communication, and was the Associate Director of the SONIC Research Lab in Industrial Engineering and Management Science at Northwestern University.

Dr. Palazzolo has multidisciplinary expertise in the social sciences, leadership, information technology, education, project and program management, business analysis, and coaching.

His transactive memory systems research focuses on the interrelations between communication and knowledge networks and their impact on team performance in organizational settings through social network analysis, multilevel modeling, and computational modeling.



MARITZA SALAZAR, PHD

Maritza Salazar, Ph.D., is an Assistant Professor of Organization and Management at the University of California – Irvine's Paul Merage School of Business. Her research focuses on learning and innovation in teams and organizations.

Her scientific research yields novel insights that enhance the competitiveness of firms, the effectiveness of teams, and the quality of the work experience for individuals. Professor Salazar is the recipient of numerous research awards, including a major multi-year grant from the National Science Foundation focused on studying and facilitating the integrative capacity of interdisciplinary science teams.

She is the Team Science program director for both UCI's Institute for Clinical and Translational Science and UCLA's Clinical and Translational Science Institute.



KARA L. HALL, PHD

Kara L. Hall, Ph.D., is Program Director and health scientist in the Behavioral Research Program of the Division of Cancer Control and Population Sciences at the National Cancer Institute (NCI) of the National Institutes of Health (NIH).

She also serves as NCI's Director of the Science of Team Science (SciTS) and Director of NCI's Theories Initiative. Her SciTS work is designed to help build an evidence base for effective team science approaches and support the translation and dissemination of emerging knowledge and best practices into practical tools and resources.

Beyond conducting SciTS research, Dr. Hall contributes to advancing the SciTS field by leading the development of special journal issues, serving as a driving force for the annual SciTS conference,

and contributing to internationally visible reports on SciTS, including as a member of the National Academies committee, which produced the report: "Enhancing the Effectiveness of Team Science."

Dr. Hall also aims to enhance team science across the scientific enterprise through activities such as serving on external advisory committees for large team science initiatives and for efforts across funding agencies aimed at enhancing support for team science.



MICHAEL O'ROURKE, PHD

Michael O'Rourke, Ph.D., is Interim Director of the MSU Center for Interdisciplinarity and a Professor of Philosophy and faculty in AgBioResearch at Michigan State University.

His research interests include environmental philosophy, the nature of epistemic integration and communication in collaborative, cross-disciplinary research, and the nature of linguistic communication between intelligent agents.

He is the Director of the Toolbox Dialogue Initiative (<http://tdi.msu.edu/>), an NSF-sponsored research initiative that investigates philosophical approaches to facilitating interdisciplinary research.



MONDAY SCHEDULE - May 21 - Morning Sessions

On Monday, May 21, the first day of the Science of Team Science 2018 conference, we will feature six dynamic workshops. Each workshop is 3.5 hours long, and attendees may choose to attend one morning workshop and one afternoon workshop.

 Salon H

Effectiveness Through Engaging Individual Motivation: The MATRICx Assessment Instrument and Knowledge Producing Team (KPT) Building Interventions

 9am

 3.5 hours

M1.1



Gaetano R. Lotrecchiano, EdD, PhD
Lead Facilitator

 Vine

Understanding and Evaluating Healthcare Multidisciplinary Teams in a Natural Setting

 9am

 3.5 hours

M1.2



Tayana Soukup, PhD
Lead Facilitator

 Ivy

Reflective Consensus Building on Wicked Problems with the Reflect! Platform

 9am

 3.5 hours

M1.3



Michael Hoffmann, PhD
Lead Facilitator

 Ballroom

Lunch Buffet

 12:30pm

 1 hour

MONDAY SCHEDULE - May 21 - Afternoon Sessions



Salon H

How to Write Research Integration and Implementation Roles into Grants and Position Them Within Organizational Structures



1:30pm



3.5 hours

M2.1



**Christine Ogilvie
Hendren, PhD**

Lead Facilitator



Vine

Building the Capacity for Effective Team Science with Interdisciplinary Translation



1:30pm



3.5 hours

M2.2



**Andi
Hess, MS**

Lead Facilitator



Ivy

"Manage the Research, Not the Researchers" Sign-Flow: A Framework for Proactive Collaborative Leadership



1:30pm



3.5 hours

M2.3



**Derek W.
Wade**

Lead Facilitator



Entry Hall

Networking Break



5pm



0.5 hour



Ballroom

Welcome & Opening Featured Speaker



5:30pm



1 hour

M 2.4



**Peter
Hotez, MD, PhD**



Salons B & C

Poster Session & Happy Hour



6:30pm



1 hour



Ballroom

Networking Dinner Reception



7:30pm



1.5 hours



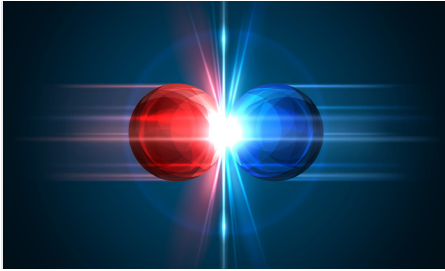
WORKSHOP DETAIL

Effectiveness Through Engaging Individual Motivation: The MATRICx Assessment Instrument and Knowledge Producing Team (KPT) Building Interventions

Time: Monday, May 21, Morning Session (9:00am – 12:30pm)

Salon H

#M1.1



Lead Facilitator:

Gaetano R. Lotrecchiano, EdD, PhD
School of Medicine and Health
Sciences
George Washington University

Co-Facilitators:

Holly J. Falk-Krzesinski, PhD
Elsevier

L. Michelle Bennett, PhD
Center for Research Strategy
National Cancer Institute

Yianna Vovides, PhD
Georgetown University
Center for New Designs in Learning
and Scholarship

The Motivation Assessment for Team Readiness, Integration, and Collaboration (MATRICx) is a tool for identifying individual motivations for collaboration in knowledge producing team (KPTs).

The MATRICx produces individual cooperation and collaboration profiles comparable with team and composite data informing KPTs about internal motivations for collaboration. MATRICx data informs team intervention strategies that emphasize how to capitalize on motivations found within teams. The 6 domains of the tool (resource acquisition, maintenance of beliefs, recognition and reward, advancing science, building relationships, and knowledge transfer) provide a platform by which teams can enhance effectiveness through activities dedicated to these domains.

COMPETENCIES/ OBJECTIVES:

- Recognize the value of the MATRICx as a tool used to inform knowledge producing teams (KPTs) about internal motivations for collaboration
- Identify teaming activities that are applicable to participant's teaming contexts in their host institutions/situations
- Engage in the interpretation of MATRICx output to design and apply learning activities
- Apply sample activities through participant-engaged simulations

Intended Audience: This workshop is targeted to those who participate in knowledge producing teams (KPTs) and/or are responsible for team workforce development. Knowledge gained through this workshop can be applied to any knowledge-producing sector that depends on team science. Participation does not require any predisposition to a specific discipline or area of science. This workshop is designed to assist research administrators, scientists, laboratory and other science technicians, team leaders, principal investigators, and other professionals responsible for meaning and nurturing high team effectiveness in knowledge producing teams.

WORKSHOP DETAIL

Understanding and Evaluating Healthcare Multidisciplinary Teams in a Natural Setting

Time: Monday, May 21, Morning Session (9:00am – 12:30pm)

Vine

#M1.2



Lead Facilitator:

Tayana Soukup, PhD

King's College London
Health Services and Population
Research Department
Centre for Implementation Sciences,
UK

Co-Facilitator:

Katia Noyes, PhD, MPH

Department of Epidemiology and
Environmental Health
School of Public Health Professions
University of Buffalo, NY

The first part of the workshop will focus on team macro-cognition, team composition, team dynamics, and communication, and how these are interconnected.

The second part will cover methodology, with a focus on observational approaches to evaluating and understanding team dynamics.

OBJECTIVES:

- Review hidden complexities and pitfalls of intense periods of team cognitive work with implications for quality and safety by drawing on wide range of literature from psychology, neuroscience, behavioural economics, to organisational and consumer behavior
- Exchange experiences of intense periods of cognitive activity in a clinical setting
- Identify and recommend ways to overcome cognitive pitfalls in team cognition
- Review observational methodological approaches for evaluating and understanding team dynamics in a natural context (using healthcare teams as an exemplar)
- Exchange information related to evaluating teams in natural contexts with emphasis on advantages and disadvantages of such approaches

- Identify and recommend potential ways to formulate and implement team-centered interventions

GOALS:

- Increased understanding of hidden complexities of team work
- Increased understanding of pitfalls associated with intense periods of team work
- Increased understanding of how cognitive strategies can help overcome pitfalls, and how these can be used in practice
- Identification of potential observational methods and tools for assessing clinical teams
- Increased understanding of how Conversation Analysis can be used to understand team dynamics
- Identification of potential ways to formulate and implement team-centered interventions

Intended Audience: Healthcare professionals who work as part of a multidisciplinary clinical team, as well as researchers/academics with interest in team work and organizational behavior.



WORKSHOP DETAIL

Reflective Consensus Building on Wicked Problems with the Reflect! Platform

Time: Monday, May 21, Morning Session (9:00am – 12:30pm)

Ivy

#M1.3



Facilitator:

Michael Hoffmann, PhD

School of Public Policy
Georgia Institute of Technology

The first goal of this 3.5-hour workshop is to familiarize participants with the Reflect! platform, which provides scripted user guidance for reflective consensus building on wicked problems in teams of 4 or 5 people (<http://reflect.gatech.edu>). The second and third goals are to stimulate a discussion in which, on the one hand, ideas about further usages of this deliberation tool are generated and, on the other, possible directions of future software developments are explored.

A wicked problem is a complex problem whose complexity results from the fact that it can be framed in a number of different ways, depending on who is looking at it. Various ways of framing the problem may depend on varying interests, disciplinary or professional backgrounds, world-views, values, or differences regarding the scale or level on which people think the problem should be addressed. For this reason, all problems that require interdisciplinary collaboration or a variety of experts are wicked problems.

Wicked problems are pervasive in societies that are characterized by a multitude of—often conflicting—

perspectives. In spite of their significance, there are hardly any curricula that prepare future generations for the challenges posed by wicked problems. The Reflect! Platform is being developed to address this need.

Since the Reflect! platform is designed to overcome various team-related barriers, attendees will have an opportunity to see whether this approach could work for them in the following settings: for teaching people and themselves how to cope with wicked problems; for studying collaboration in teams; and as a tool to support teams of professionals in workshop settings.

Working in teams on the Reflect! platform will be the workshop's main activity. Attendees will collaborate in small teams for about 2 hours on a wicked problem such as the ethical challenges of facial recognition technologies in public spaces, robotic caregivers for the elderly, inequality, climate change, or a complex planning process.

Intended Audience: All - researchers, students, and practitioners.

WORKSHOP DETAIL

How to Write Research Integration and Implementation Roles into Grants and Position Them Within Organizational Structures

Time: Monday, May 21, Afternoon Session (1:30 – 5:00pm)

Salon H

#M2.1



Lead Facilitator:

**Christine Ogilvie
Hendren, PhD**

Center for the Environmental
Implications of NanoTechnology
(CEINT)
Duke University

Co-Facilitators:

Karen Demby, PhD

The North Carolina Translational and
Clinical Sciences (NC TraCS) Institute
University of North Carolina

Matt Hotze, PhD

Nanotechnology Enabled Water
Treatment (NEWTE) Engineering
Research Center

Pips Veazey

Alaska Experimental Program to
Stimulate Competitive Research

This workshop will build on previous Intereach community workshops to develop and expand our profession by discussing and sharing effective approaches to include integration roles within grant proposals. There are several barriers to making the work of these roles more visible, one of the most important being funding these positions at the proposal stage.

Targeted questions for this workshop include:

- What are our targeted funding sources?
- What are our roles in each type of grant?
- What is our strategy going forward to further establish these roles?
- What is our message to funding bodies?
- What is our message to institutions?

Workshop participants will learn how to best pitch the added value of Intereach roles to traditional and non-traditional funding bodies within the world of academic research.

This seminar will serve as an opportunity to study past successes and brainstorm creative future approaches for

funding such roles within grants, including supported % effort and salary numbers wherever possible to deliver the most implementable insight to all participants.

We will augment published approaches with input from the Intereach and SciTS listservs with models for supporting Intereach roles through grants from a variety of different funding vehicles. We will also break into small groups for active brainstorming of possible future approaches, with a group devoted to IES staff roles and a group devoted to I2S faculty roles. RDP professionals will be invited to join the group that is most relevant to their organizations.

Intended Audience: Intereach members, I2S, IES, and/or RDP professionals interested in funding boundary-spanning roles.



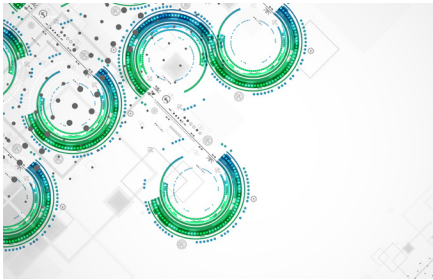
WORKSHOP DETAIL

Building the Capacity for Effective Team Science with Interdisciplinary Translation

Time: Monday, May 21, Afternoon Session (1:30 – 5:00pm)

Vine

#M2.2



Facilitator:

Andi Hess, MS

Interdisciplinary Translation and
Integration Sciences
Arizona State University

During this workshop, participants will gain an introduction to a newly proposed method for conducting effective team science. Interdisciplinary Translation embeds a trained interdisciplinarian in research teams to build team capacity and translate team communication across disciplinary languages and cultures.

Participants will be placed into interdisciplinary teams and given an example scenario with a complex system and a complex problem. One person will be briefly “trained” as an interdisciplinary translator and given a set of guidelines to follow while facilitating the team collaboration activity. Participants will practice communicating across disciplinary boundaries and collaboratively produce a conceptual diagram of the complex system, along with integrated potential research questions. Teams will present these outcomes and then engage in a discussion regarding the experience. They will then reflect on the process and co-create an inventory of best practices for Interdisciplinary Translation.

OBJECTIVES:

Participants will understand basic Interdisciplinary Translation concepts and skills.

Participants will engage in discussions across disciplinary boundaries around example scenarios.

Participants will jointly create a conceptual diagram to serve as a boundary object that assists the team in organizing a conceptual framework of a scenario.

Participants will reflect on the team discussion process and articulate practices that enhance or hinder the collaboration experience.

EXPECTED OUTCOMES:

Participants will gain hands-on experience practicing effective collaboration.

Participants will co-create an inventory of best practices for interdisciplinary translation and building team capacity for team science research.

Participants will be able to use boundary objects in future team scenarios as a tool for discussions that cross disciplinary boundaries.

Intended Audience: Researchers who are already participating or plan to participate in Team Science research project teams and seek the skills and tools to make projects and team communication more efficient.

WORKSHOP DETAIL

"Manage the Research, Not the Researchers" Sign-Flow: A Framework for Proactive Collaborative Leadership

Time: Monday, May 21, Afternoon Session (1:30 – 5:00pm)

Ivy

#M2.3



Lead Facilitator:

Derek W. Wade

Kumido Adaptive Strategies

Co-Facilitator:

Susan Eller, MSN, RN, CHSE

Stanford School of Medicine

Sign-Flow is a selected set of Interdisciplinary Product Development best practices, generalized for any collaborative knowledge work, that provides a common framework for project decision-making. Traditional project management tools based in role- and process-centric coordination/control methods can restrict cross-discipline innovation, reinforce existing social silos, and create cumbersome decision-making hierarchies. Sign-Flow differs from these in that is centered on a simple feed-forward flow that provides structure for decisions at various states of the project while accommodating team member diversity.

In this workshop, Derek and Susan will present Sign-Flow as a practical distillation of the most immediately beneficial Lean/Kanban (a set of best practices with roots in manufacturing and software development) practices for a trans-disciplinary science team:

State Transition Mapping
-- Simplifying the complex web of decisions, handoffs, and collaborations on any knowledge work project into a linear, progressive series of State Transitions which are unique to the organization.

Visualization -- Using a visual representation of the project elements onto the State Transition Map as a focal point for critical project decisions.

Synchronization -- Team members form and use Transition Agreements when deciding to move a project element across States, while having individual authority within their expertise on the items within States.

This separation of the State Transition Map from the individual project elements also serves to clarify agreements at project initiation.

By the end of this session, attendees will be able to relate the Sign-Flow framework to their trans-disciplinary project team coordination needs, and negotiate role and process discussions in the context of Sign-Flow.

Attendees will take away their created workflow analysis, State Transition Map, Transition Agreements, and Visualization Design as a beginning-to-end example of applying the framework to a relevant Interdisciplinary Research domain.

Intended Audience: Leaders, coordinators, and members of trans-disciplinary project teams with no established hierarchy, who seek to unify the focus of individual team members with differing approaches, strengths, and degrees of experience.



TRAINING AND CURRICULUM	
POSTER 1 <i>John Turner, Rose M. Baker, Kerry Romine</i>	The Team Science Program at the University of North Texas
POSTER 2 <i>Bonnie Spring, Ekaterina A. Klyachko, Phillip W. Rak, H. Gene McFadden, Angela Pfammatter, Donald Hedeker, Juned Siddique</i>	Online Team Science Training for Health and Medical Professionals: Teamscience.net
POSTER 3 <i>Helen Yin, Christina Ahn, Marissa Hansen, Traci Barros, Britany Singleton, Suzanne Farmer, Byron Cryer</i>	Developing Future LEADers: The Leadership Emerging in Academic Departments Program
POSTER 4 <i>Diana Lowry, Melinda L. Irwin, Marian L. Neuhouser, Ruth E. Patterson, Jennifer Ligibel, Kathryn Schmitz, Graham Colditz, Linda Nebeling</i>	The Transdisciplinary Research in Energetics and Cancer (TREC) Training Workshop
INTERPROFESSIONAL COLLABORATION	
POSTER 5 <i>Tsion Habtamu, Mirinda Gormley, Alfred Brown, Pamela Brown, Michelle Stockner, Joshna Seelam, Sherita Chapman-Smith</i>	User-Centered Mobile Telestroke Platform Development Using Clinical Simulation-Based Usability Testing
POSTER 6 <i>Kamisha Escoto, Chloe Dorsey, Crystel Roberson, Lorna H. McNeill</i>	The Faith Health and Family Collaborative: A Community-Based Transdisciplinary Partnership
POSTER 7 <i>Arif Pendi, Jeffrey C. Wang, Frank L. Acosta, Rana Movahedi, Adana Melkonian, Alan Shahbazi, David Safani, Gligor Gucev</i>	Development of a Multi-disciplinary Team to Study Preoperative Anxiety in Spine Surgery: A Case Study
POSTER 8 <i>Joshna Seelam, Tsion Habtamu, Michelle Stockner, Pamela Brown, Alfred Brown, Mirinda Gormley, Sherita Chapman-Smith</i>	Using RE-AIM to Evaluate Mobile Prehospital Telestroke Intervention

MENTORSHIP	
POSTER 9 <i>Sujin Horwitz</i>	Mosaic Mentoring and Cross-Cultural Training for Medical Professionals
POSTER 10 <i>Ashlynn Kogut, Michele Norton, Amanda Garr, Michael Beyerlein</i>	Role of Mentors in Multidisciplinary Innovation and Design Student Teams
NETWORK ANALYSIS	
POSTER 11 <i>Felichismo Kabo, Xiao Shi, George Mashour</i>	From Networks to Research Funding: Transformative Impacts of a CTSA
POSTER 12 <i>Carrie Roeveer, Luke Sheneman, Casey Blair, Rick Shumaker</i>	Using Graph Networks to Manage Cross-Institution, Cross-Discipline Research Programs
POSTER 13 <i>Damayanthi (Dayan) Ranwala, Jihad S. Obeid, Tami L. Crawford, Perry V. Halushka</i>	Impact of Pilot Project Funding on Collaborations: An Assessment of Team Science Using Research Network Analysis
DEFINING AND REVIEWING FOR TEAM SCIENCE	
POSTER 14 <i>Hannah Love, Jenifer E. Cross, Ellen Fisher</i>	The Central Role of Women in the Development, Process and Outcomes of Scientific Teams
POSTER 15 <i>Rachel Nelson</i>	Think About It: How Attitudes About Objectivity Influence Motivation
POSTER 16 <i>Jon Zurn</i>	Editorial Teaming to Improve Research Proposal Quality and Competitiveness
POSTER 17 <i>Deborah DiazGranados, Gerald F. Moeller</i>	What Does Team Science Look Like?





We help researchers make new discoveries, collaborate with their colleagues, and give them the knowledge they need to find funding. We help governments and universities evaluate and improve their research strategies. We help doctors save lives, providing insight for physicians to find the right clinical answers, and we support nurses and other healthcare professionals throughout their careers. Our goal is to expand the boundaries of knowledge for the benefit of humanity

<https://www.elsevier.com/>



FEATURED SPEAKER

Vaccines, Autism, and Blue Marble Health

Time: Monday, May 21 (5:30 - 6:30pm)

Ballroom

#M2.4



Peter Hotez, MD, PhD

Dean, National School of Tropical Medicine
Professor, Departments of Pediatrics and Molecular Virology & Microbiology
Baylor College of Medicine

Director, Center for Vaccine Development
Texas Children's Hospital

Through Gavi, the Vaccine Alliance, we have made tremendous progress on reducing deaths from childhood vaccine-preventable diseases, with an 80% or greater decrease for some diseases since 2000. However, our gains are fragile due to a failure in public policy and advocacy and the rise of an aggressive anti-vaccine movement, especially in Europe and the America. These reversals of gains and global goals may soon extend to the world's large low- and middle-income nations. In parallel, there is an urgent need for translational medicine related to new vaccines for emerging pandemic threats and poverty-related neglected diseases, but there too are serious policy failures, social determinants such as war and shifting poverty, climate change, as well as some key scientific hurdles.

Despite these obstacles, a new generation of innovative vaccines is under development, which could build around the latest innovations in gene editing, single cell RNA sequencing, and other new technologies.

Suggested readings:

<https://jhupbooks.press.jhu.edu/content/blue-marble-health>

<https://jhupbooks.press.jhu.edu/content/vaccines-did-not-cause-rachels-autism>

<https://www.texasmonthly.com/articles/scientist-stop-measles-texas/>

TUESDAY SCHEDULE - May 22 - Morning Sessions

On Tuesday, May 22, we will host featured speakers, thematic paper sessions and panels, and a special workshop sponsored by Knowinnovation, an organization that specializes in facilitating and accelerating academic, scientific, interdisciplinary innovation. This workshop will be held between 6:00 and 8:00pm, and dinner will be provided.



Ballroom

Welcome & Featured Speaker



9am



1 hour

T 1.1



James Sallis, PhD



Ballroom

SciTS Recognition Awards Outstanding Paper Award & SciTS Meritorious Contribution Awards



10am



0.5 hour



Entry Hall

Networking Break



10:30am



0.5 hour



Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions

Salon
G

Vasko
Turner

Salon
H

Norris
Pena

Vine

Anderson
Soukup

Ivy

Wharton
Cross



11am



1 hour

T 1.2



Ballroom

Buffet Lunch & Featured Speaker



12pm



1.5 hours

T 1.3



Anita Williams
Woolley, PhD

TUESDAY SCHEDULE - May 22 - Afternoon Sessions

Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions/Panels

Salon G | **Panel: Salinero** | Salon H | **Chao Schwab Turner** | Vine | **Bhavnani Pavlidis Ahmadpoor** | Ivy | **Panel: Wooten**

🕒 1:30pm 🕒 1.5 hours # T 2.1

Entry Hall

Networking Break

🕒 3pm 🕒 0.25 hour

Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions/Panels

Salon G | **Panel: Ranwala** | Salon H | **Lee Spell McCormack Kabo** | Vine | **Moon Schaeffer Ladd Spitzer** | Ivy | **Panel: Hubbs**

🕒 3:15pm 🕒 1.5 hours # T 2.2

Entry Hall

Networking Break

🕒 4:45pm 🕒 0.25 hour

Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions

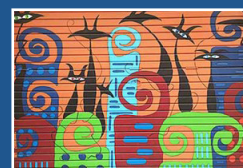
Salon G | **Falk-Krzesinski Tyshchuk** | Salon H | **Bhavnani Struck Sedlock** | Vine | **Ortiz Lee** | Ivy | **Love Mitchell Fisher**

🕒 5pm 🕒 1 hour # T 2.3

Ballroom

Knowinnovation Sponsored Workshop & Dinner

🕒 6pm 🕒 2 hours # T 2.4



FEATURED SPEAKER

Lessons Learned from Leading an Interdisciplinary Research Funding Program: From Teams to Studies to Application

Time: Tuesday, May 22, Morning Session (9:00 - 10:00am)

Ballroom

#T1.1



James Sallis, PhD

Distinguished Professor Emeritus
Department of Family Medicine and
Public Health
UCSD School of Medicine

Active Living Research was a 15-year funding program supported by the Robert Wood Johnson Foundation that facilitated development of a new and wildly interdisciplinary research area to understand environment and policy drivers of physical activity. Key disciplines included public health, exercise science, behavioral sciences, city planning, transportation, parks and recreation, geography, landscape architecture, and policy science. Engaging this wide range of disciplines was essential for building relevant evidence but presented challenges.

This presentation will summarize key methods used to support the success of interdisciplinary teams and present lessons learned related to team development and functioning, leadership, collaborative development of methods and measures, developing study aims, publication, and active communication of results to researchers, practitioners, policy makers, and advocates.

SCITS RECOGNITION AWARDS

The SciTS Meritorious Contribution Awards & Outstanding Paper Award

Time: Tuesday, May 22, Morning Session (10 - 10:30am)

Ballroom



The **SciTS Meritorious Contribution Awards**

recognize abstract submissions that demonstrate excellence in their relevance, research approach, clarity, innovation, and significance to important topics in team science.

SciTS Meritorious Contribution

Awards are bestowed in four

categories:

- Oral Presentation
- Emerging Scholar Oral Presentation
- Poster Presentation
- Emerging Scholar Poster Presentation

The **SciTS Outstanding Paper Award**

acknowledges the single best full paper submitted for the annual conference that addresses significant theoretical or practical issues of importance to the team science community. It is based on evidence, with potential to impact team, organizational, or system level dynamics.

The Outstanding Paper in 2018 will also receive special consideration for publication in the Journal of Applied Behavioral Science.

Join us in congratulating this year's awardees, to be announced at the meeting!



knowinnovation

Accelerating Scientific Innovation

What We Do

Knowinnovation specializes in facilitating and accelerating academic, scientific, interdisciplinary innovation. In the simplest terms: we help smart people have interesting conversations about complex questions. This leads to novel ideas and innovative research.

We work in the realm of creativity, problem solving, leadership, managing change, research, technology – all the things that go hand-in-hand with innovation.



SciTS

Building the knowledge base
for effective team science



FEATURED SPEAKER

Collective Intelligence in Scientific Teams

Time: Tuesday, May 22, Lunch (12:00 – 1:30pm)

Ballroom

#T1.3



In this session, Professor Anita Williams Woolley will discuss recent research on collective intelligence in teams.

Then, she will identify some of the key leverage points for building smart teams from the ground up, including:

1. Identifying the right people to compose the team
2. Shaping the right goals
3. Fostering high quality collaboration

Anita Williams Woolley, PhD

Associate Professor of Organizational
Behavior & Theory
Tepper School of Business
Carnegie Mellon University



THEMATIC PAPER SESSIONS - DETAIL

Tuesday, May 22, Morning Session (11:00am – 12:00pm)

Future Directions

Salon G

#T1.2a

Moderator: Elias Samuels

Paper: Applying Artificial Intelligence, Neural Networks, and Machine Learning to SciTS (Stephanie Vasko)

Paper: Complex Adaptive Team Systems (CATS) (John Turner et al)

Non-Academic Dimensions of Team Science

Salon H

#T1.2b

Moderator: M Scott Poole

Paper: The Integral Role of Non-Scientific Specialists: A UK Case Study (Ruth Norris et al)

Paper: Policy Levers to Open Federal Laboratories and Incentivize Public-Private R&D Collaborations (Vanessa Pena)

Communication in Team Science - Analysis and Facilitation

Vine

#T1.2c

Moderator: Michael O'Rourke

Paper: Information Sharing Techniques to Close Gaps in Distance Collaboration (Laura Anderson et al)

Paper: Gaps and Overlaps in Healthcare Team Communication: Analysis of Speech (Tayana Soukup et al)

Learning Environments for Team Science

Ivy

#T1.2d

Moderator: Anne Heberger Marino

Paper: Syncopated Pandemonium: Redesigning a College for Translational Science and Learning (Christopher Wharton et al)

Paper: Teaching Team Science (Jennifer Cross et al)

THEMATIC PAPER SESSIONS/PANELS - DETAIL

Tuesday, May 22, Afternoon Session 1 (1:30 - 2:50pm)

Panel - Establishing Trust in a Distributed Team to Cultivate Systemic Change

Salon G

#T2.1a

Moderator: Stephen Crowley

Panelists:

Kennan Salinero, Anne Heberger Marino, Pips Veazey, Mery Miguez, Ulrike Kloiber, Andrea Chlopchik, Kimberley Brown Magnan

Leadership

Salon H

#T2.1b

Moderator: Heather Billings

Paper: Introduction to Leadership Training for Pre-Doctoral Students Engaged in Team Science (Celia Chao et al)

Paper: Contextual Factors Influencing Collaboration: Using a Followership Lens (Karen Schwab)

Paper: Team Emergence Leadership Development and Evaluation Model Using Complexity Theory (John Turner et al)

Team Performance Metrics

Vine

#T2.1c

Moderator: Felichism Kabo

Paper: Team-Centered Informatics: Leveraging Team Science for Designing Effective Informatics Solutions (Suresh Bhavnani et al)

Paper: Scholar Plot: Well-Abstracted and Scalable Interface for Academic Performance (Ioannis Pavlidis et al)

Paper: Decoding Teams: Team Output and Individual Productivity (Mohammad Ahmadpoor et al)

Panel - Team Scientists as Subjects: An Examination of Three Preliminary Studies

Ivy

#T2.1d

Moderator: Erin Blakeney

Evaluation of a Pilot Team Leadership Assessment Center for Team Scientists (Kevin C. Wooten et al)

An Exploration of How Emergent Collaboration Patterns Relate to Project Performance of Embedded Interdisciplinary mHealth Teams (Bonnie Spring et al)

Randomized Trials to Understand and Enhance Early-Career Collaboration in the CTSA Network: Refining Process and Outcomes (Larry Hawk et al)

THEMATIC PAPER SESSIONS/PANELS - DETAIL

Tuesday, May 22, Afternoon Session 2 (3:15 - 4:35pm)

Panel - Case Studies and Lessons Learned in Promoting Team Science in Cross-Disciplinary Collaborations and Institutions

Salon G

#T2.2a

Moderator: Karen Demby

Examples of Mechanisms to Stimulate Cross-Disciplinary Team Collaborations (Dayan Ranwala)

Understanding Social Mechanisms of Team Science: Using a Case Example of Individual and Team Level Analysis (Gaetano R. Lotrecchiano)

Strategies and Challenges in Application of the Evidence Base to Promote Translational Team Science (Allan Brasier)

Team Science, Not Only About Science (Elizabeth Travis)

Building Teams in a Biomedical Context

Salon H

#T2.2b

Moderator: Maritza Salazar-Campo

Paper: Interprofessional Team Approach for Developing Sexual Assault Assessment Training (Wendy Lee)

Paper: Fault Lines and Best Practices in the Treatment of Substance Abuse (Chester Spell et al)

Paper: Using TL1 Teams to Transform Clinical & Translational Science Training (Wayne McCormack et al)

Paper: Will They, or Not? Factors Associated with Consulting a CTSA (Felichism Kabo et al)

Team Science – The Student Perspective

Vine

#T2.2c

Moderator: John Kues

Paper: Student Perceptions Before and After Interprofessional Experiences in Biomedical Training (Joon Moon et al)

Paper: Student Reflections of Interprofessional Experiences in the Biomedical Sciences (August Schaeffer et al)

Paper: Case Study of Interdisciplinary Student Research Teams: Factors, Outcomes, and Lessons Learned (Brent Ladd)

Paper: Collaborative Team Science Supports Integrative Research in the Chesapeake Bay (Suzanne Spitzer et al)

Panel - The Toolbox Dialogue Initiative: Evidence of Effectiveness and New Directions

Ivy

#T2.2d

Moderator: Michael Burnham-Fink

Panelists: Graham Hubbs, Bethany Laursen, Marisa A. Rinkus, Brian Robinson, Stephanie E. Vasko

THEMATIC PAPER SESSIONS - DETAIL

Tuesday, May 22, Afternoon Session 3 (5:00 - 6:00pm)

Big Data Bibliography

Salon G

#T2.3a

Moderator: Michael Hoffman

Paper: Mendeley Science of Team Science (SciTS) Library (Holly J. Falk-Krzesinski)

Paper: First Steps to Systematic Review of Very Large Biomedical Research Teams (Yulia Tyshchuk et al)

Tools for Team Science

Salon H

#T2.3b

Moderator: Stephanie Vasko

Paper: Exploring Visual Analytics as Boundary Objects in Multidisciplinary Science Teams (Suresh Bhavnani et al)

Paper: Team Disciplinary Diversity: Open Innovation of a Widget (Brooke Struck et al)

Paper: Assessing Quality Improvement Team Processes - A Meeting Observation Tool (Emily Sedlock et al)

Collaborators – Who and How

Vine

#T2.3c

Moderator: Andi Hess

Paper: Stages in the Formation of Laboratory Research Groups (Jose Ortiz)

Paper: Research Collaboration in the Life Sciences (Kyuseon Lee et al)

Team Evaluation

Ivy

#T2.3d

Moderator: Marisa Rinkus

Paper: The Connection Between Team Development and Team Outcomes (Hannah Love et al)

Paper: Employing a Communication Chemistry Framework to Advance Team-Based Cancer Research (Breeana Mitchell et al)

Paper: Do Interventions for Academic Scientific Teams Matter? (Ellen Fisher et al)



SPONSORED WORKSHOP & DINNER

Tuesday, May 22 (6:00 - 8:00pm)

Ballroom

#T2.4

Knowinnovation



Co-Facilitators:

Donnalyn Roxey

Stavros Michailidis

Knowinnovation

Dinner and a Grand Challenge: Come Dine with Us & Tackle the Opioid Use Epidemic and Other Grand-Challenge Areas through Engineered Team Science

Collaborative interdisciplinary works are required to tackle difficult multi-faceted problems. Knowinnovation would like to welcome you for dinner and an interactive session to learn about one model being implemented across the federal government and universities alike to tackle these wicked problems.

At this workshop, members of the Knowinnovation team will demonstrate their model for strategic collaboration through an example they are currently deeply involved with: the opioid use crisis in the United States. This model, which was developed in the UK, adopted by the NSF, NIH, NASA and others, and since adapted in partnership with the University at Buffalo CTSA and institutions around the US, is now being disseminated to the CTSA network and beyond.

Deaths through opioid use have risen dramatically over the last 10 years. Although significant efforts are being made to combat the problem, it seems likely that existing approaches will not be sufficient to bring the problem under control.

This workshop will use current work to explore how the science of team science could help to create new, and more effective, solutions to this and many other grand challenge-like problems.

This hands-on interactive workshop will:

1. Introduce you to Knowinnovation and the Substance Use Innovation Lab model for tackling challenges requiring diverse disciplines of knowledge.
2. Explore through group interactions how team science might help to impact interdisciplinary research.

The workshop could offer three main benefits to attendees:

1. Learning about a new approach to generating novel research ideas, and collaborations, through the deliberate creation of interdisciplinary teams.
2. Creating a research agenda for team science researchers in this area.
3. Formation of a network of researchers and practitioners with a focus on this topic. The purpose of the network will be to accelerate the dissemination of innovative research ideas.

Intended Audience: All - researchers, students, and practitioners.

T1-T4 IN 3 (MINUTES) COMPETITION

Wednesday, May 23 (3:30 - 5:00pm)

Ivy

#W2.3d



Co-Facilitators:

Sharon Croisant, PhD

Kelley Murfin, MSPH

Our competitors will compete for four prizes!

First Place: \$1000
Second Place: \$750
Third Place: \$500
People's Choice: \$1000

T1-T4 in 3 (Minutes) is an adaptation of the University of Queensland's Three Minute Thesis (3MT®) competition, in which PhD students must present their 80,000-word thesis in 3 minutes or less to a lay audience. This competition provides the opportunity for participants to strongly and cogently present their ideas and research discoveries to non-specialists.

Our adapted version, T1-T4 in 3 (Minutes), still requires a presentation in three minutes or less to a lay audience, but rather than a thesis, the topics center on the presenters' research. The purpose of this exercise is to increase health and scientific literacy among our communities, to bridge gaps between the scientific community and the public, and to improve the capacity of our trainees to effectively communicate complex science to a lay audience.

This single activity thus supports each of our other dissemination mechanisms by increasing our trainees' confidence in their ability to converse with non-specialists regarding their research, including not only the public, but potential funders, colleagues, and the media. This efficacy further increases these trainees' likelihood to participate in additional opportunities to share their research. Our trainees are challenged to acquire skills including:

- Ability to convey context, relevance, and significance
- Confidence in public speaking
- Organization of thoughts
- Ability to communicate in language appropriate to a lay or non-specialist audience

- Capacity to engage in meaningful dialog with a lay audience
- Capability of "commanding an audience"
 - Confident stage presence
 - Eye contact and vocal range
 - Pace
- Economy of scale for presentation prop (single PowerPoint slide)

This competition provides travel awards for the first, second, and third best translations, as determined by a panel of judges, as well as a "people's choice" award, as determined by the audience.

TRCC Challenge

This year, UTMB challenged its sister CTSA institutions to a statewide competition, to be held in conjunction with the 2018 Science of Team Science meeting. In preparation for this historic event, we provided an orientation and training session and asked that each campus identify a T1-T4 in 3 (Minutes) "Champion" to manage the process locally.

UTMB staff provided all background materials and a training curriculum for conducting the competitions in Houston, Dallas, and San Antonio.

The winners from each campus received travel support, in addition to the monetary prizes, to then compete in the statewide competition, to be held during the conference on Wednesday, May 23.



WEDNESDAY SCHEDULE - May 23 - Morning Sessions

On Wednesday, May 23, we will host another featured speaker, a featured panel, more thematic paper sessions and panels, a translational research student competition, and the conference closing session. Following the closing session, representatives of CTSA-funded institutions are invited to a special dinner meeting.



Welcome & Featured Speaker



9am



1.25 hours

#W1.1



Laurie R.
Weingart, PhD



Entry Hall

Networking Break



10:20pm



0.25 hour



Ballroom

Featured Panel



Edward T.
Palazzolo, PhD



Kara L.
Hall, PhD



Maritza
Salazar, PhD



Michael
O'Rourke, PhD



10:45 am



1.5 hours

#W2.1



Ballroom & Salons F & G

Buffet Lunch (Ballroom) & Emerging Scholars Luncheon (Salons F & G)



12:15pm



1.25 hour

WEDNESDAY SCHEDULE - May 23 - Afternoon Sessions



Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions/Panels

Salon **G** | **Panel: Coleman** | Salon **H** | **Qin Burnman-Fink Bhavnani** | **Vine** | **Dodd Wang Park Fowler** | **Ivy** | **Panel: Blakeney**



1:30 pm



1.5 hours

#W2.2



Entry Hall

Networking Break



3 pm



0.5 hour



Salon G, Salon H, Vine, & Ivy

Thematic Paper Sessions

Salon **G** | **Kotarba Poole Crowley** | Salon **H** | **Hess Freeth Wu** | **Vine** | **Salazar Laursen Falk-Krzesinski** | **Ivy** | **T1 - T4 in 3 Comp.**



3:30 pm



1.5 hours

#W2.3



Ballroom

Closing Session



5 pm



0.5 hour



Ballroom

CTSA Dinner



6:30 pm



1.5 hours



FEATURED SPEAKER

Team Collaboration and Conflict

Time: Wednesday, May 23, Morning Session (9:00 – 10:20am)

Ballroom

#W1.1



Laurie R. Weingart, PhD

Interim Provost
Tepper School of Business

Richard M. and Margaret S. Cyert
Professor of Organizational Behavior
and Theory

Carnegie Mellon University

Almost by definition, research teams require members to work across disciplines and must integrate a breadth of perspectives to be effective. Yet, working across boundaries is difficult because our different knowledge bases and value systems cause us to define and approach problems differently – resulting in perceptual gaps.

This keynote will discuss the role of perceptual gap-based conflict in interdisciplinary teams and how teams can harness that conflict via effective conflict expression and management.



FEATURED PANEL

Funding SciTS Research: Historical Perspectives, Practical Lessons Learned, and New Opportunities

Time: Wednesday, May 23, Morning Session (10:45am - 12:15pm)

Ballroom

#W2.1



Edward T. Palazzolo, PhD

Program Manager
Social and Cognitive
Networks
Army Research Office



Kara L. Hall, PhD

Director, Science of
Team Science
Director, Theories
Initiative
Health Behaviors
Research Branch
National Cancer
Institute

The science of team science aims to generate an evidence-base and develop translational applications to help maximize the efficiency and effectiveness of team science. To achieve this goal, over the past decade, SciTS scholars have leveraged a range of resources and strategies in order to conduct research and develop policies and practices.

Drs. Maritza Salazar and Michael O'Rourke will share their experiences in obtaining funding for SciTS research through a federal agency and university support as well as more opportunistic and entrepreneurial approaches. They will discuss challenges, lessons learned, and practical recommendations for obtaining funding for SciTS research.



Maritza Salazar, PhD

Assistant Professor
of Organization and
Management
Paul Merage School of
Business
University of
California – Irvine



Michael O'Rourke, PhD

Interim Director,
MSU Center for
Interdisciplinarity
Professor of Philosophy,
AgBio Research
Michigan State
University

Dr. Kara Hall will begin with a historical perspective of SciTS funding by providing a review of the funding sources reported in more than 100 empirical SciTS studies and reflect on the implications of different funding sources for the type of research and its relationship to the growth of SciTS.

The panel will close with featured speaker, Dr. Edward Palazzolo. Dr. Palazzolo will discuss current funding opportunities for SciTS research in the Department of Defense and Army Research Office, as well as new directions for research in areas such as human-agent-teaming.



THEMATIC PAPER SESSIONS/PANELS - DETAIL

Wednesday, May 23, Afternoon Session 1 (1:30 - 3:00pm)

Panel - Team Science for All: But How Do We Make It Work?

Salon G

#W2.2a

Moderator: Amanda Vogel

Team Science for All: Conception
(Nana Coleman et al)

Team Science for All:
Implementation
(Kyler M. Godwin et al)

Team Science for All:
Assessment
(Alana Newell et al)

Team Science – Analytics

Salon H

#W2.2b

Moderator: Graham Hubbs

Paper: Collaboration Capacity:
Measuring the Impact of
Cyberinfrastructure-Enabled
Collaboration Networks
(Jian Qin et al)

Paper: Interactive Bibliometric
Network Mapping for
Evaluating Interdisciplinary
Research Groups
(Michael Burnman-Fink)

Paper: Accelerating Innovation
in Multidisciplinary Scientific
Teams through Visual Analytics
(Suresh Bhavnani et al)

Enabling Collaboration – Community Structure

Vine

#W2.2c

Moderator: Christine Hendren

Paper: Key Factors for
Success of Transdisciplinary
Research Teams
(Paul Dodd et al)

Paper: A HATENATHON
Approach Report on
Promoting SciTS in Japan
(GE Wang et al)

Paper: Facilitating and
Implementing Team
Science During the ECHO's
Developmental Phase
(Christina Park et al)

Paper: Encouraging Self-
Organized Collaborations
at an Interdisciplinary
Research Institute
(Kristine Fowler)

Panel - Translating Team Training from Healthcare and Education to CTSA Research Teams

Ivy

#W2.2d

Moderator: Bonnie Spring

Panelists: Erin Blakeney, Brenda Zierler, Jennifer Sprecher

Team Training with
Interprofessional Health
Professions Faculty

Team Training with Practicing
Healthcare Teams

Incorporation of Lean-R into
Team Science

THEMATIC PAPER SESSIONS - DETAIL

Wednesday, May 23, Afternoon Session 2 (3:30 - 4:50pm)

Identifying Tasks and Roles to Enhance Team Science

Salon G

#W2.3a

Moderator: Deborah DiazGranados

Paper: The Role(s) of the Consultant in Team Science (Joseph Kotarba et al)

Paper: Enhancing Team Science Through Mobilizing the Diversity-Creativity Tension (Marshall Poole et al)

Paper: Is Collaboration a Scientific Virtue? (Stephen Crowley)

Creating Innovators

Salon H

#W2.3b

Moderator: Hannah Love

Paper: Building Interdisciplinary Capacity for Team Science: The Interdisciplinary Translation Initiative (Andi Hess)

Paper: Some Like It Cool: Tracking Changing Temperatures of Interdisciplinary Team Dynamics (Rebecca Freeth)

Paper: Only Diamond Can Cut Diamond in Science (Lingfei Wu)

Improving Our Practices

Vine

#W2.3c

Moderator: Dayan Ranwala

Paper: Measuring Cognitive Interaction Capability in Teams: Scale Development and Validation (Maritza Salazar et al)

Paper: Evidence for Integrative Reasoning in Interdisciplinary Team Science (Bethany Laursen et al)

Paper: Interdisciplinary Team Science Proposal Development (Holly J. Falk-Krzesinski)

T1 – T4 in 3 (Minutes) Competition

Ivy

#W2.3d

Moderators: Sharon Croisant & Kelley Murfin



THURSDAY - May 24 - Team Science Training

Our innovative new Team Science Training workshop will engage a small group of participants in hands-on learning specifically relevant to investigators participating in team science, including topics like:

- The discipline of team science and best practices for becoming a better team scientist -
- Transformational leadership skills that you can use to assess and enhance your ability -
- Brainstorming for innovation and exploration of relevant team dynamics and best practices -



Ballroom

Team Science Training: Welcome & Opening Remarks



8:30am



Allan R.
Brasier, MD

Team Science Training: Status of Team Science



8:45am



1 Hour

#TH1.1



Kara L.
Hall, PhD



Ivy

Team Science Training: Track 1 Transformational Leadership Skills for Translational Sciences



9:30am



2.5 hours

#TH1.2



Kevin
Wooten, PhD



Eugene
Frazier



Vine

Team Science Training: Track 2 Brainstorming for Innovation in Team Science



9:30am



2.5 hours

#TH1.3



Maritza
Salazar, PhD



Ballroom

Team Science Training: Lunch & Conclusion



12pm



1 hour

TEAM SCIENCE TRAINING

Welcome & Opening Remarks

Time: Thursday, May 24, Training Session

8:30am

Ballroom



Allan R. Brasier, MD

Executive Director, Institute for
Clinical and Translational Research
Senior Associate Dean for Clinical and
Translational Research
University of Wisconsin – Madison

Welcome & Opening Remarks

Allan R. Brasier, MD, is this year's SciTS conference chair and is the Executive Director of the Institute for Clinical and Translational Research (ICTR) at the University of Wisconsin-Madison. Dr. Brasier was a faculty member at the University of Texas Medical Branch in Galveston from 1991 to 2018. At UTMB, he served as the director of the Institute for Translational Sciences, director of the Sealy Center for Molecular Medicine, and the Nelda C. and H.J. Lutchter Stark Distinguished Professor in the Department of Internal Medicine.

He has received 10 patents to date, and his 240 publications have been cited more than 10,000 times. Dr. Brasier is a distinguished leader with a passion for creating highly effective multi-disciplinary research teams.



TEAM SCIENCE TRAINING

Status of Team Science

Time: Thursday, May 24, Training Session (8:30 - 9:30am)

Ballroom

#TH1.1



Kara L. Hall, PhD
Director, Science of Team Science
Director, Theories Initiative,
Health Behaviors Research Branch
National Cancer Institute

CURRENT STATE OF TEAM SCIENCE

- What Do We Know
- What Do We Not Know
- Research-Based Best Practices
- Becoming a Better Team Scientist

Kara L. Hall, PhD, is Program Director and health scientist in the Behavioral Research Program of the Division of Cancer Control and Population Sciences at the National Cancer Institute (NCI) of the National Institutes of Health (NIH). She also serves as NCI's Director of the Science of Team Science (SciTS) and Director of NCI's Theories Initiative. Her SciTS work is designed to help build an evidence base for effective team science approaches and support the translation and dissemination of emerging knowledge and best practices into practical tools and resources. Beyond conducting SciTS research, Dr. Hall contributes to advancing the SciTS field by leading the

development of special journal issues, serving as a driving force for the annual SciTS conference, and contributing to internationally visible reports on SciTS, including as a member of the National Academies committee, which produced the report: "Enhancing the Effectiveness of Team Science." Dr. Hall also aims to enhance team science across the scientific enterprise through activities such as serving on external advisory committees for large team science initiatives and for efforts across funding agencies aimed at enhancing support for team science.

TEAM SCIENCE TRAINING

Track 1: Transformational Leadership Skills for Translational Science

Time: Thursday, May 24, Training Session (9:30am - 12 pm)

Ivy

#TH1.2



Kevin Wooten, PhD

Consulting Director of Tracking and Evaluation
University of Texas Medical Branch



Eugene Frazier

Senior Talent and Organization Development Consultant
University of Texas Medical Branch

TOPICS

- Distinction Between Types of Leadership
- Self-Assessment of Transformational Leader Strengths
- The Kouzes & Posner Leadership Challenge Model
- Case Analysis and Discussion
- Behavioral Exemplars and Best Practices in Applying the Leadership Challenge Model to Leading Scientific Teams
- Back-Home Application Planning

Kevin Wooten, PhD, is

Chair and Professor of Management and Human Resource Management at the University of Houston at Clear Lake. He serves as Consulting Director of Tracking and Evaluation for the University of Texas Medical Branch's Institute for Translational Sciences, as well as lead team science consultant.

Eugene Frazier is a Senior

Talent and Organization Development Consultant at the University of Texas Medical Branch. Mr. Frazier is highly recognized for his expertise as an executive coach and innovative skill-set in the field of Leadership Development. He is the co-author of competency based modeling and developer of the community of practice for the scientific mindset within UTMB's Institute for Translational Sciences.



TEAM SCIENCE TRAINING

Track 2: Brainstorming for Innovation in Team Science

Time: Thursday, May 24, Training Session (9:30am - 12 pm)

Vine

#TH1.3



Maritza Salazar, PhD

Assistant Professor of Organization
and Management
Paul Merage School of Business
University of California – Irvine

TOPICS

- Innovation and Translational Team Science
- Team Dynamics, Structure, and Creativity
- Steps and Stages of Facilitating a Brainstorming Session
- Best Practices to Generate Team-Based Innovation

Maritza Salazar, PhD,

is an Assistant Professor of Organization and Management at the University of California – Irvine's Paul Merage School of Business. Her research focuses on learning and innovation in teams and organizations. Her scientific research yields novel insights that enhance the competitiveness of firms, the effectiveness of teams, and the quality of the work experience for individuals.

Dr. Salazar is the recipient of numerous research awards, including a major multi-year grant from the National Science Foundation focused on studying and facilitating the integrative capacity of interdisciplinary science teams. She is the Team Science program director for both UCI's Institute for Clinical and Translational Science and UCLA's Clinical and Translational Science Institute.

FIELD TRIPS

GALVESTON NATIONAL LABORATORY

Thursday, May 24, Half-day visit (9am - 2pm)



This field trip features a half-day visit to the Galveston National Laboratory (GNL) on the UTMB Galveston campus. The GNL is a high-security National Biocontainment

Laboratory. It is one of only two such facilities in the United States, and it is the largest one in the world located on an academic campus. Its scientists and research staff exemplify numerous aspects of productive, innovative team science practice.

Lunch and transportation from and back to the hotel are included.

NASA-JOHNSON SPACE CENTER

Thursday, May 24, Half-day visit (9am - 2pm)



This field trip features a half-day visit to the official NASA-Johnson Space Center's Visitors Center involving many historical exhibitions, a tram tour of the JSC complex, Saturn V rocket park, historic and new mission control facilities, and an actual Space Shuttle exhibit.

Lunch and transportation from and back to the hotel are included.

COMMITTEE MEMBERS

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