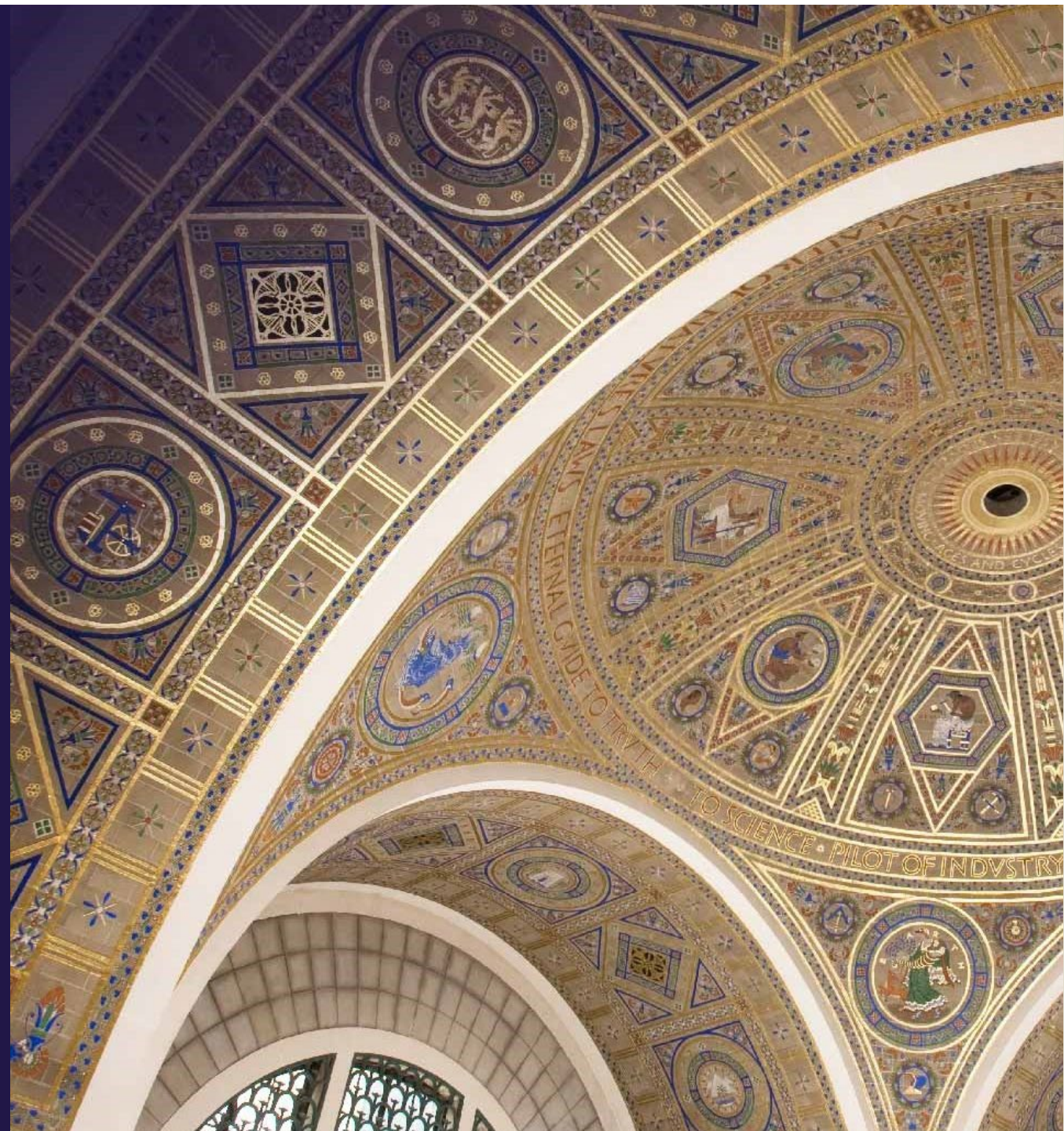


Welcome! We will
begin at 10:00 AM ET

Examining Traumatic Brain Injury
as a Chronic Condition: A
Workshop

NATIONAL
ACADEMIES

Sciences
Engineering
Medicine



Keynote Speaker



John Corrigan

The Ohio State University

Session 1: Epidemiology of Traumatic Brain Injury as a Chronic Condition

Session Objectives:

- Assess the current evidence on the incidence and prevalence of long-term symptoms and/or disabilities following TBI across different populations.
- Describe what is known about characteristics and biological and sociodemographic factors associated with developing chronic symptoms or disabilities over the life course.
- Identify scientific knowledge gaps and other barriers that impede a comprehensive understanding of TBI as a chronic condition.

Session 1: Epidemiology of Traumatic Brain Injury as a Chronic Condition



Kristen Dams-O'Connor

Icahn School of Medicine at
Mount Sinai

Moderator



Andrea Schneider

University of
Pennsylvania Perelman
School of Medicine



Angelle Sander

Baylor College of
Medicine

Discussion Session

Guest attendees of the webinar are invited to submit questions for the speakers via the Slido box at the bottom of livestream video.

Due to time constraints, we regret we won't be able to address all queries. Thank you for your engagement.

Session 2: Neuropathophysiological Mechanisms Underlying TBI as a Chronic Condition

Session Objectives:

- Examine the state of the evidence on the biological basis for TBI as a chronic condition.
- Identify research gaps or barriers to advancing understanding of the lasting health effects of TBI.

Session 2: Neuropathophysiological Mechanisms Underlying TBI as a Chronic Condition



Amy Wagner

University of Pittsburgh

Moderator



David Loane

Trinity College Dublin

Discussion Session

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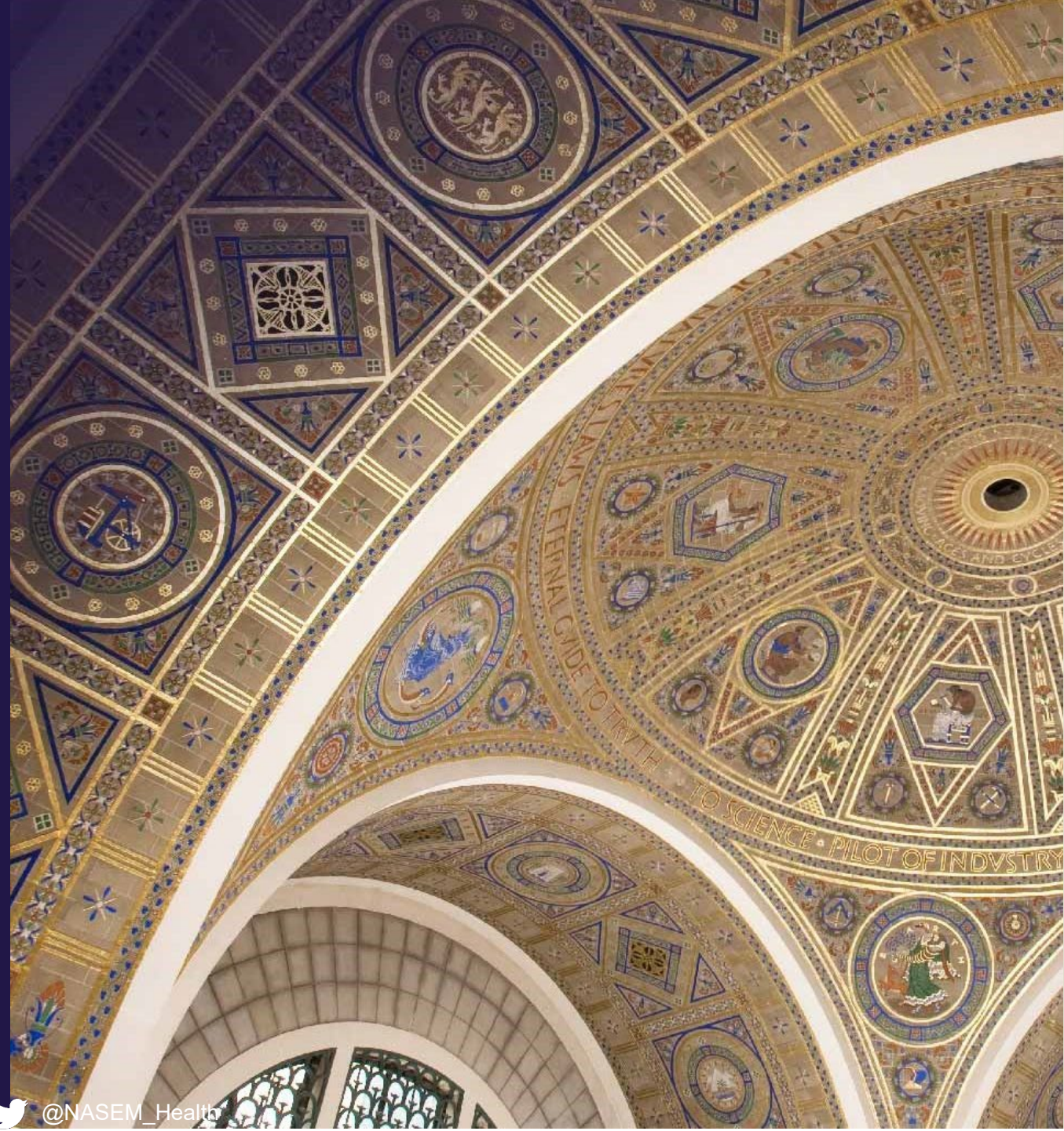
Due to time constraints, we regret we won't be able to address all queries. Thank you for your engagement.

We are on a break and
will resume at 12:55 pm
ET.

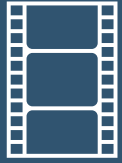
Examining Traumatic Brain Injury as a Chronic Condition: A Workshop

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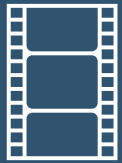
Sciences
Engineering
Medicine



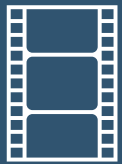
VIDEO #2 FEATURING LIVED EXPERIENCES



Jack Somers – Veteran living with epilepsy and other chronic symptoms following a TBI sustained in the field.



Carole Starr – Woman living with a TBI received during a car accident. Her injury was originally considered minor, but has impacted her life in many ways in the decades since her injury.



Kelly Lang – Woman living with a TBI sustained in a car accident that also resulted in a more severe TBI for her daughter. She speaks about her long-term recovery while also navigating being a caregiver for her daughter.

Session 3: Evidence on Outcomes and Co-Morbidities Associated with TBI as a Chronic Condition

Session Objectives:

- Examine the evidence on common symptoms and co-occurring health conditions associated with TBI as a chronic condition over the life course.
- Identify knowledge gaps and barriers that impede a comprehensive understanding of TBI as a chronic condition.
- Discuss the compounding contributions of TBI sequelae on functional outcomes and quality of life, as well as impact on access to and management of care.

Session 3: Evidence on Outcomes and Co-Morbidities Associated with TBI as a Chronic Condition



Jeanne Hoffman

University of
Washington School
of Medicine

Moderator



Charles Bombardier

University of
Washington



Mary Jo Pugh

University of Utah



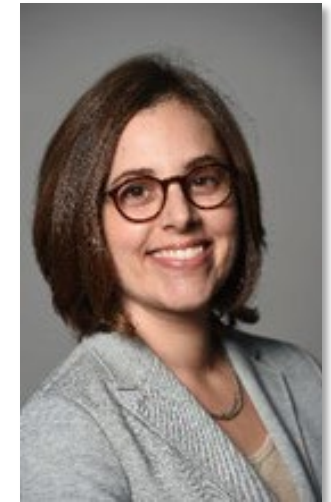
Tamara Wexler

New York
University



Saef Izzy

Brigham and
Women's Hospital



Raquel Gardner

University of
California, San
Francisco

Discussion Session

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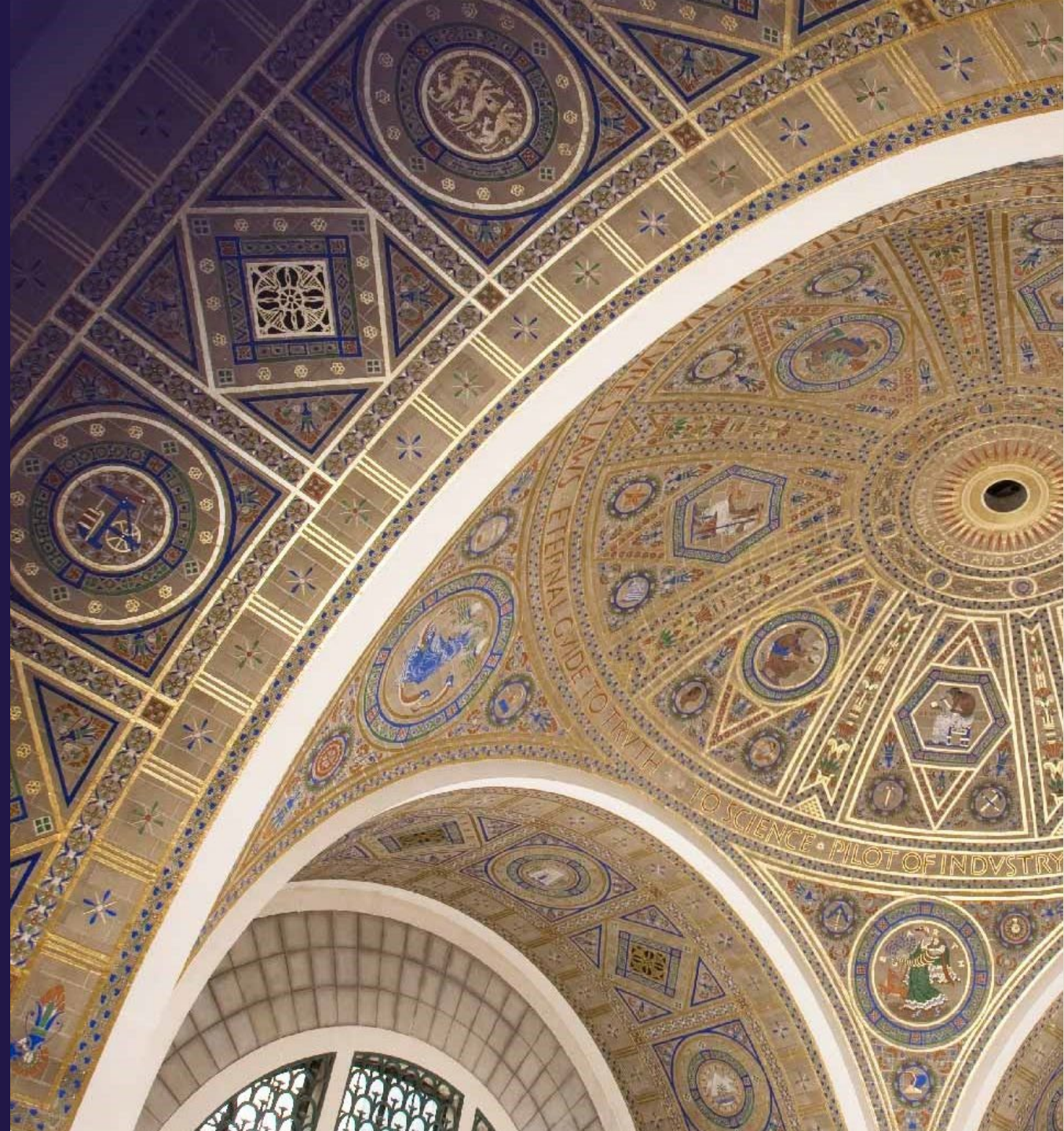
Due to time constraints, we regret we won't be able to address all queries. Thank you for your engagement.

We are on a break and
will resume at 2:25 pm
ET.

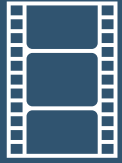
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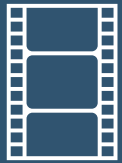
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Engineering
Medicine



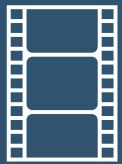
VIDEO #3 FEATURING LIVED EXPERIENCES



Jack Somers – Veteran living with epilepsy and other chronic symptoms following a TBI sustained in the field.



Carole Starr – Woman living with a TBI received during a car accident. Her injury was originally considered minor, but has impacted her life in many ways in the decades since her injury.



Kelly Lang – Woman living with a TBI sustained in a car accident that also resulted in a more severe TBI for her daughter. She speaks about her long-term recovery while also navigating being a caregiver for her daughter.

Session 4: Gaps in the Current Landscape of Rehabilitative Care and Specialized Services for TBI as a Chronic Condition

Session Objectives:

- Discuss current care pathways and services available to address outcomes associated with TBI as a chronic condition.
- Identify gaps and points of failure in the current landscape of care and specialized services.
- Explore barriers to timely access to care and services.

Session 4: Gaps in the Current Landscape of Rehabilitative Care and Specialized Services for TBI as a Chronic Condition



Stacy Suskauer
Johns Hopkins
School of Medicine
Moderator



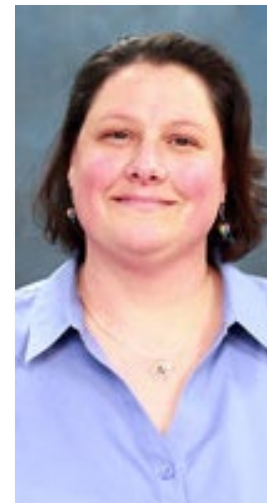
Joel Scholten
Department of
Veterans Affairs



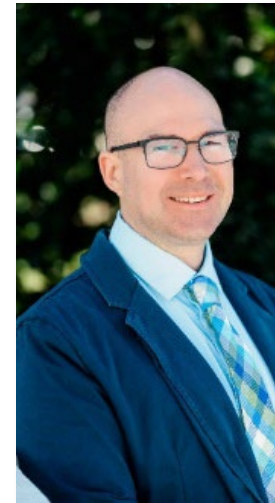
Mark Ashley
Centre for Neuro
Skills



Tolu Oyesanya
Duke University
School of Nursing



Rebecca Quinn
University of North
Dakota School of
Medicine and Health
Sciences



Derek Fales
Maine Brain Injury
Program



Shannon Juengst
TIRR Memorial
Hermann

Discussion Session

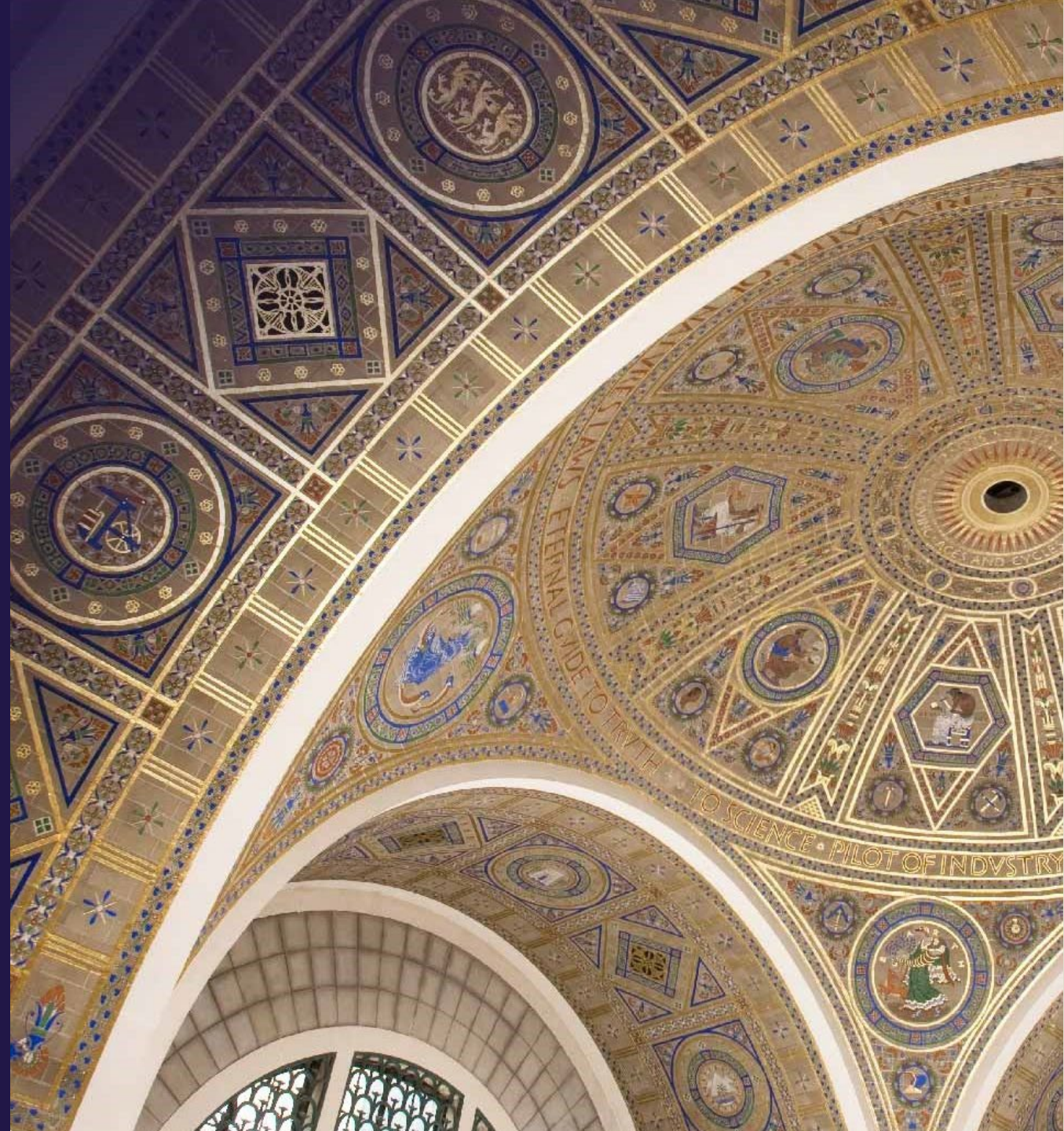
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Day 1 of the workshop has concluded. Please join us tomorrow at 10:00 am ET for Day 2.

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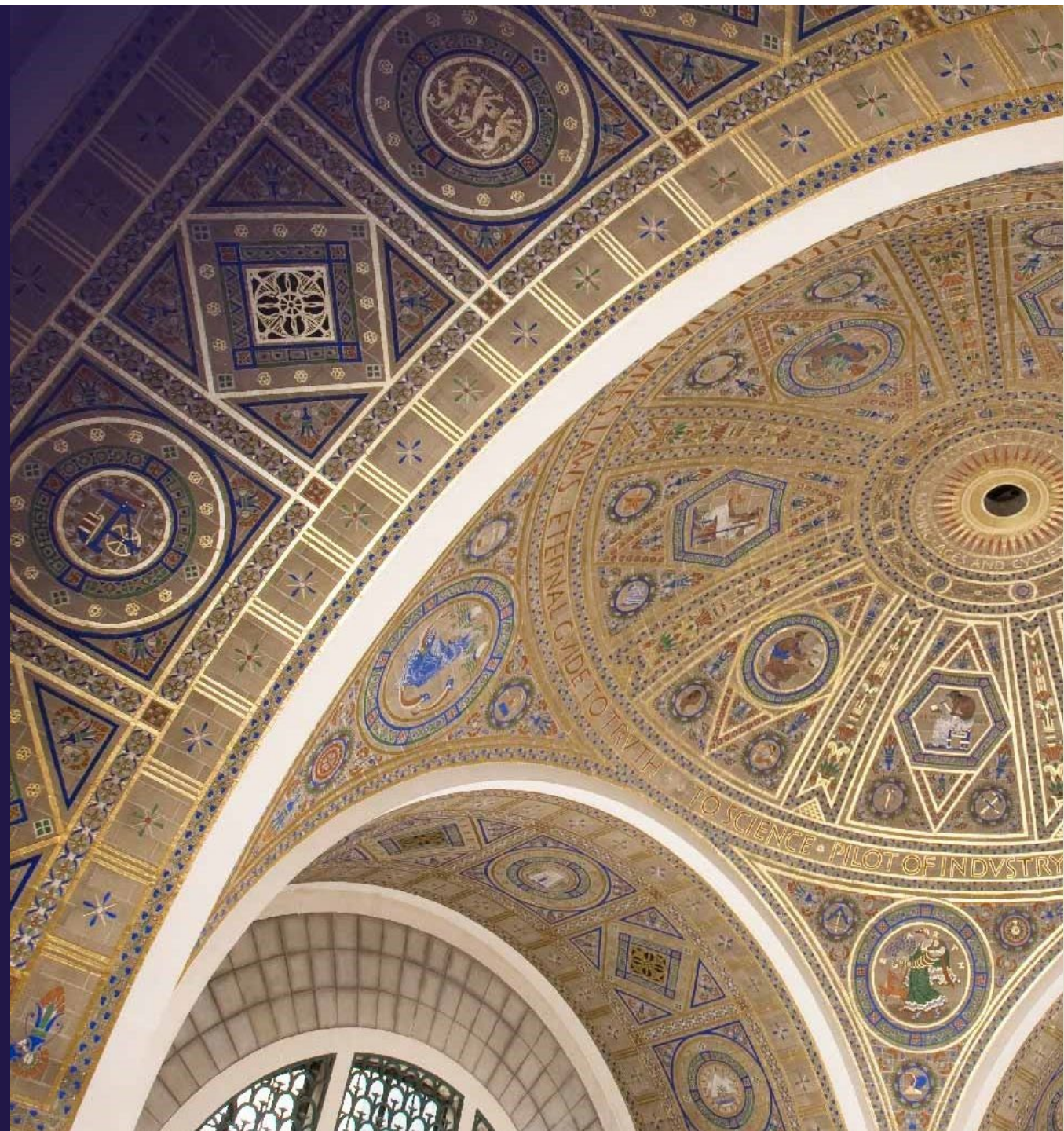


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Session 5: Opportunities for the Use of Chronic Care Models for TBI

Session Objectives:

- Discuss recent findings on the use of specialized chronic care models for TBI.
- Explore essential characteristics of an ideal care model that could be brought to scale.

Session 5: Opportunities for the Use of Chronic Care Models for TBI



**Risa Nakase-
Richardson**

James A. Haley
Veterans' Hospital

Moderator



Judy Dettmer

NASHIA



Kelli Talley

Virginia
Commonwealth
University



Eric Spier

Craig Hospital



Helene Moriarty

Villanova
University
VA Medical
Center,
Philadelphia

Discussion Session

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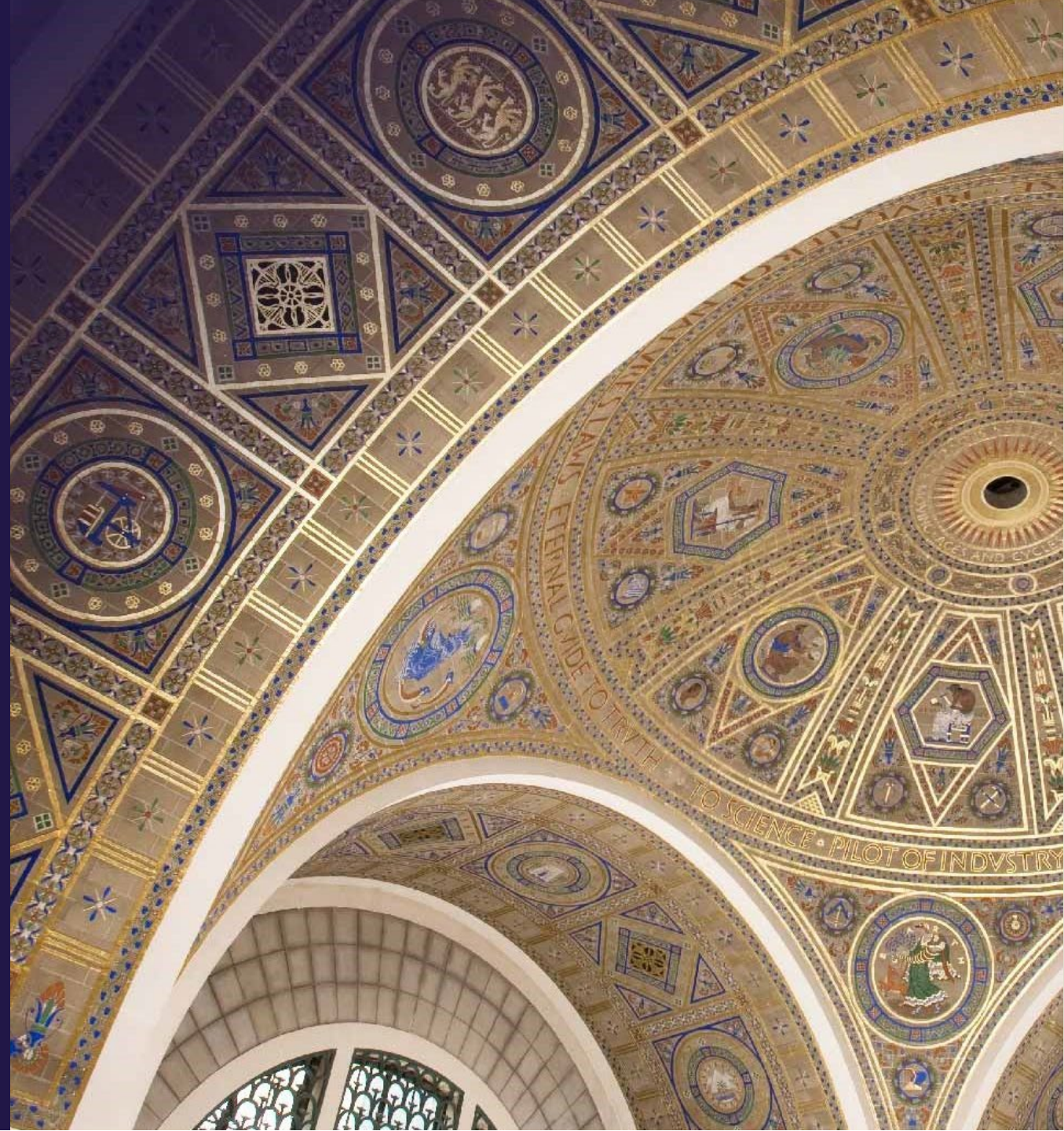
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We are on a break and
will resume at 11:30 am
ET.

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Session 6: Near Term Opportunities to Improve Care for TBI as a Chronic Condition

Session Objectives:

- Review gaps and challenges identified by speakers and workshop participants on Day 1 relating to the current state of care and services for TBI as a chronic condition.
- Identify near term actions to improve care and services for all people living with the lasting effects of TBI across the life course.

Session 6: Near Term Opportunities to Improve Care for TBI as a Chronic Condition



Flora Hammond
Indiana University
School of Medicine
Moderator



Owen Perlman
Associates in
Physical Medicine
and Rehabilitation



John Corrigan
The Ohio State
University



Shannon Juengst
TIRR Memorial
Hermann



Judy Dettmer
NASHIA

Day 1 Takeaways on Care and Services for TBI as a Chronic Condition

- TBI is a multifactorial and dynamic condition.
- The designation of TBI as a chronic condition includes benefits like greater medical provider awareness and changes in insurance coverage.
- Long-term multidisciplinary care approaches are important for tailoring interventions to the specific needs of individuals and families.
- Improved outcomes and functional gains are associated with rehabilitation treatments.
- Access to community-based services and other social supports following discharge is limited and fragmented, placing an increased burden on the person and their family.
- There is inadequate screening for ongoing health and functional decline and insufficient services to address co-occurring conditions (e.g., mental health disorders) over the life course.
- Care for those experiencing intimate partner violence and the transition from child to adulthood requires further consideration.

Discussion Session

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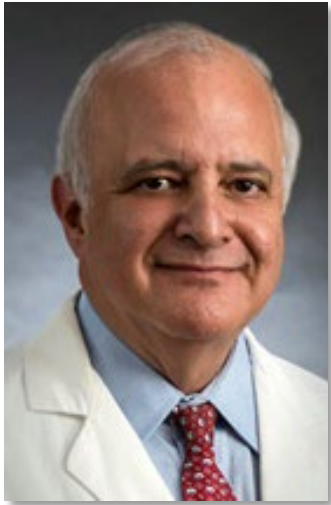
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Session 7: Near Term Opportunities to Improve Care for TBI as a Chronic Condition

Session Objectives:

- Review research gaps and challenges identified by speakers and workshop participants on Day 1.
- Identify near term actions to advance a comprehensive understanding of TBI as a chronic condition and inform the development of new approaches to treatment and prevention.

Session 7: Near Term Opportunities to Advance Research on TBI as a Chronic Condition



Ramon Diaz-Arrastia

University of
Pennsylvania Perelman
School of Medicine

Moderator



Angelle Sander

Baylor College of
Medicine



David Loane

Trinity College
Dublin



Jeanne Hoffman

University of
Washington School
of Medicine

Day 1 Takeaways and Research Priorities for Characterizing TBI as a Chronic Condition

- Having a TBI is associated with increased risk of multiple symptoms and conditions (e.g., cognitive changes, mood disorders, epilepsy, pituitary changes, stroke, and changes in immune response).
- Need to prioritize leveraging existing longitudinal databases to explore TBI-relevant questions and to better understand comorbidities and long-term outcomes.
- Opportunities exist to use biomarkers and research from preclinical models to elucidate the complex biological pathways involved in TBI chronicity.
- Biomarkers for mTBI can also be used to help understand the relationship between acute symptoms and transition to chronic TBI.
- Better methods are needed to differentiate post-TBI related cognitive decline versus cognitive decline associated with natural aging in older adults.

Discussion Session

Guest attendees of the webinar are invited to submit questions for the speakers via the Slido box at the bottom of livestream video.

Due to time constraints, we regret we won't be able to address all queries. Thank you for your engagement.

The workshop has
concluded. Thank you for
attending!

The recording and presentations
will be posted to the website within
one week.

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