

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Committee on Identifying Opportunities at the Interface of
Chemistry and Quantum Information Science

Information Gathering Session I

Agenda

March 11, 2022, 2:15-5:30pm EST

Zoom Information

Join by computer:

<https://nasem.zoom.us/j/93932702367?pwd=UVdZeTN5a0V4OHY0NWYxRFVhNyt2dz09>

Join by Phone:

US: +1 (646) 518 9805

Meeting ID: 939 3270 2367

Password: 485595

2:15 Welcome and Introductions

Theodore Goodson, *Committee Chair*

The Richard Bernstein Collegiate Professor of Chemistry

University of Michigan

Session I. History and Outlook on Scalability

2:20: David Awschalom, *Opportunities for Chemistry in Quantum Information Science*

Liew Family Professor

University of Chicago

QIS Group Leader, Materials Science Division

Argonne National Laboratory

2:50 Q&A with Committee

Brenda Rubenstein (moderator)

Joukowsky Family Assistant Professor of Chemistry

Brown University

3:05 Michael Wasielewski, *Molecular Systems for Quantum Information Science*

Clare Hamilton Hall Professor of Chemistry

Northwestern University

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3:35 **Q&A with Committee**

Stephen Hill (moderator)
Professor of Physics
Director of Electron Magnetic Resonance User Program
Department of Physics, Florida State University
National High Magnetic Field Laboratory

3:50 ***Break***

Session II. Addressability, Scalability, and Molecular Architecture

4:00 **Introduction**

Theodore Goodson, *Committee Chair*
The Richard Bernstein Collegiate Professor of Chemistry,
University of Michigan

4:05 **Roberta Sessoli, *Magnetic Molecules in Hybrid Architectures for QIS***

Professor of General and Inorganic Chemistry
University of Florence

4:20 **Q&A with Committee**

Danna Freedman (moderator)
F. G. Keyes Professor of Chemistry
Massachusetts Institute of Technology

4:35 **Giulia Galli, *Quantum Simulations and Quantum Information: A Key Feedback Loop***

Liew Family Professor of Electronic Structure and Simulations
University of Chicago

4:50 **Q&A with Committee**

Ryan Babbush (moderator)
Head of Quantum Algorithms
Staff Research Scientist
Google, LLC

5:05 **Closing Remarks**

Theodore Goodson, *Committee Chair*
The Richard Bernstein Collegiate Professor of Chemistry
University of Michigan

5:10 ***Adjourn open session***