10:30 AM
Welcome
Gaetano T. Montelione, Rensselaer Polytechnic Institute, USA

Session I
Enabling Understanding of Protein Structure, Function, and Design

10:35 AM – 10:45 AM
Helen M. Berman, Rutgers - The State University of New Jersey and RCSB Protein Data Bank, USA
The First 50 Years of the Protein Data Bank

10:45 AM – 11:15 AM
John Jumper, DeepMind, Inc, United Kingdom
Talk Title to Come

11:15 AM – 11:45 AM
Ruth Nussinov, NIH, USA, and Tel Aviv University, Israel
Unraveling Oncogenic Mechanisms and Signaling with Structures

11:45 AM – 12:15 PM
Christine Orengo, University College London, United Kingdom
Enriching the Evolutionary and Functional Insights Enabled by Structural Data from the PDB

12:15 PM – 12:45 PM
David Baker, University of Washington, USA
Talk Title to Come

12:45 PM – 1:00 PM
Break

Session II
Molecular Biophysics of Membrane Proteins

1:00 PM – 1:10 PM
Stephen K. Burley, Rutgers - The State University of New Jersey and RCSB Protein Data Bank, USA
Looking Ahead to the Next 50 Years of the Protein Data Bank

1:10 PM – 1:40 PM
Jue Chen Rockefeller University and HHMI, USA
ABC Transporters: Molecular Pumps Powered by ATP

1:40 PM – 2:10 PM
Nieng Yan, Princeton University, USA
Structural Basis for the Initiation of Electrical Signaling

2:10 PM – 2:40 PM
Linda Columbus, University of Virginia, USA
The Structure, Dynamics, and Function of Proteins Involved in Bacterial Pathogenesis: LspA and Opa

2:40 PM – 3:10 PM
Rod MacKinnon, Rockefeller University and HHMI, USA
The Incredible Diversity of K+ Channels.

3:10 PM – 3:15 PM
Closing Remarks
Gaetano T. Montelione, Rensselaer Polytechnic Institute, USA