

EXAFS-50 Symposium, Oct. 30-31, 2023
Brookhaven National Laboratory

Organizer: Anatoly Frenkel (Stony Brook University/BNL). Administrator: Sarah Peters (BNL)

Oct. 30 (Monday)

9am: **Anatoly Frenkel** (Stony Brook/BNL) Introduction

9:10am: **John Gordon** (BNL), **Richard Reeder** (Stony Brook Univ.) Welcome

Session I. History and main ideas

9:30am: **Steve Heald** (ANL –retired) “*Personal history of EXAFS*”

10:30am: **John Rehr** (University of Washington) “*Perfecting the Theory of XAFS*”

11:30am: Break+photo

12:00pm: **Grant Bunker** (Illinois Institute of Technology) “*Perspectives on XAFS*”

1-2pm: Break

Session II. Current developments

2pm: **Matthew Newville** (U. Chicago/APS/ANL) “*Development of EXAFS analysis software*”

3pm: **Alexei Kuzmin** (U. Latvia) “*Solving EXAFS puzzle using Reverse Monte Carlo simulations*”

4pm: Break

4:30pm: **Gerald Seidler** (University of Washington) “*Lab-based XAFS*”

5:30pm: Adjourn

Oct. 31 (Tuesday)

Session III. Applications

9am: **Shelly Kelly** (Argonne/APS) “*Advanced spectroscopies: XAS and XES*”

10am: **Daniel Haskell** (ANL) “*EXAFS vs other techniques for structural studies*”

11am: Break

11:30am: **Anatoly Frenkel** (SBU/BNL) “*Application of EXAFS to nanomaterials*”

12:30pm: **Joseph Woicik** (NIST) “*Some of our recent contributions to 50 years of XAFS*”

1:30-2:30pm: Break

Session IV. Quo Vadis?

2:30pm: **Janis Timoshenko** (Fritz Haber Institute) “*Machine Learning methods*”

3:30pm: **Victor Krayzman** (NIST) *TBD*

4:30pm: Break

4:45pm: **Kirill Lomachenko** (ESRF) “*XAFS experiment: Maximizing the data quality*”

5:45pm **Anatoly Frenkel** (SBU/BNL) “Concluding remarks”

Adjourn