

NTHRYS WORKSHOPS

Advanced Techniques In Molecular Dynamics

8:45 AM - 10:15 AM: Session 1: Advanced Simulation Methods

Introduction to advanced simulation methods in molecular dynamics. Hands-on session on using enhanced sampling techniques and coarse-grained simulations. Practical demonstration of advanced molecular dynamics simulations.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Integrating Molecular Dynamics with Experimental Data

Exploring approaches for integrating molecular dynamics with experimental data. Workshop on combining simulation data with X-ray crystallography, NMR, and other experimental techniques.

Case studies on the benefits of integrative approaches in molecular dynamics.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Multiscale Modeling

Hands-on session on multiscale modeling techniques.

Exploring techniques for bridging different scales in molecular dynamics simulations.

Practical applications of multiscale modeling in complex systems.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Computational Tools for Molecular Dynamics

Workshop on computational tools and software for molecular dynamics.

Practical techniques for using popular molecular dynamics packages.

Case studies on the role of computational tools in enhancing molecular dynamics research.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes