

## Shvartsburg Receives 2004 M.T. Thomas Award for Outstanding Postdoctoral Achievement

Alexandre Shvartsburg, a postdoctoral fellow under EMSL user Dick Smith and Pacific Northwest National Laboratory's (PNNL's) Biological Separations and Mass Spectrometry Group, is the 2004 recipient of EMSL's prestigious M.T. Thomas Award for Outstanding Postdoctoral Achievement.

Shvartsburg was selected for his outstanding accomplishments in the development of a fundamental understanding of ion mobility-based methods and instrumentation—particularly Field Asymmetric Waveform Ion Mobility Spectrometry (FAIMS)—which involved comprehensive theoretical modeling and computational simulation.

He has successfully applied his insight of ion mobility fundamentals towards the invention and practical implementation of new high-performance analytical technologies and platforms at PNNL. Chief among Shvartsburg's many accomplishments are the:

- design and construction of a next-generation liquid chromatograph/ion mobility spectrometry/time-of-flight mass spectrometry system that has achieved record resolution and sensitivity through the use of ion funnel interfaces
- development of a comprehensive model for FAIMS analyzers of any geometry that has been successfully employed to optimize the design and operation of FAIMS devices.

Shvartsburg obtained his Ph.D. in Chemistry from Northwestern University in 1999. He has served as a postdoctoral fellow at EMSL since 2003.

Since 1996, the M.T. Thomas Award has acknowledged outstanding accomplishments by postdoctoral fellows who conduct their research at EMSL. The award is named for Dr. M. Tom Thomas, an EMSL pioneer and leader from 1987 until his retirement in 1995.

For more information, contact [Kevin Kautzky](mailto:Kevin.Kautzky@pnl.gov) (509-376-9200).

