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EMSL In Brief

Environmental Molecular Sciences Laboratory

Three EMSL Users Named Laboratory Fellows

Thomas Squier, TP Straatsma, and Yong Wang, EMSL users from the Pacific Northwest National Laboratory (PNNL), were honored as 2005 Laboratory Fellows at a special event held in October.

- Squier is a user of EMSL's High-Field Magnetic Resonance Facility, where he is using capabilities to investigate strategies for developing reagents and technologies for rapid characterization of protein complexes in microbial cells. Researchers anticipate that such strategies will provide an understanding of how microbes adapt to environmental changes, with application targeted toward efficient energy use, carbon sequestration, and environmental remediation.
- Straatsma, a long-time EMSL user, is involved in two ongoing and complex computational grand challenge projects focused on investigating microbial membrane proteins, DNA, and enzymatic reactions using the resources of EMSL's Molecular Science Computing Facility. He is also one of the developers of NWChem, a computational chemistry software for massively parallel computer architectures. He is one of the recipients of a 1999 R&D 100 Award for his part in the development of the Molecular Sciences Software Suite—of which NWChem is a significant piece.
- Wang has provided outstanding contributions in the field of heterogeneous catalysis and microchannel reaction technology to the development of energy-efficient technologies. He is a past recipient of two R&D 100 awards and a Presidential Green Chemistry Award, and was named PNNL Inventor of the Year and Battelle's Distinguished Inventor. He is also the first-time recipient of PNNL's Scientific Achievement Award.

A fourth PNNL staff member, Fabrizio Petrini, was also recognized as a Laboratory Fellow. The Laboratory Fellow is the highest evaluated scientific and engineering position at PNNL. The appointment exhibits the highest level of achievement to the Laboratory's major sponsors and to the national and international scientific and engineering community through character, innovation, and accomplishment.

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