

# NewsLetter

Week of December 3, 2007

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## Four named 2007 Laboratory Fellows

by Steve Sandoval

Laboratory scientists Jas Mercer-Smith, Roman Movshovich, Harvey Rose, and Richard Sheffield are the 2007 Laboratory Fellows, as selected by Director Michael Anastasio.

The Fellows designation is the Lab's highest honor and is bestowed on selected technical staff members who have demonstrated excellence in programs important to the Laboratory's mission, made significant scientific discoveries that lead to widespread use, or have been recognized as leaders in their fields both inside and outside the Laboratory.

"I'm pleased to recognize these distinguished members of our technical staff," said Laboratory Director Michael Anastasio. "They are yet another example of the many dedicated men and women working at Los Alamos who serve our nation and the world with technical and scientific excellence. They bring honor to the Laboratory.

"The Fellows play an important role in demonstrating and maintaining scientific excellence at the Lab. And on occasion, I and the other senior leaders charge the Fellows to assess issues where their experience and advice is particularly useful."

A reception for the new Laboratory Fellows is scheduled for December 11.

Mercer-Smith of Navy-2 (X-2-N-2) is widely recognized for his scientific insight, deep technical understanding, and pivotal contributions to the field of nuclear weapons. His creativity and broad appreciation



Jas Mercer-Smith



Harvey Rose



Richard Sheffield



Roman Movshovich

of the physics underlying this technology have enabled him to make several critical contributions to the program, for which he received the Department of Energy Nuclear Weapons Recognition of Excellence Award three times.

Mercer-Smith was the designer for six Nevada Test Site events and has published 137 Nuclear Weapons Archiving Project listings that have been cited cumulatively more than 1,300 times.

A theoretical physicist, Rose has a sustained record of contributions in plasma physics, fluid dynamics, and statistical physics. His thesis work, known as the Martin-Stiggia-Rose formalism, pioneered the statistical field of fluid mechanics and initiated the field of non-equilibrium statistical physics. His work at the Laboratory has had seminal impact on the field of laser-plasma interactions and provides the theoretical framework for understanding the results from the National Ignition Facility.

Rose of Complex Systems (T-13) has published nearly 100 papers that have been cited cumulatively more than 3,250 times and is a Fellow of the American Physical Society.

Movshovich works in Condensed Matter and Thermal Physics (MPA-10) and is an internationally recognized leader in low temperature physics whose scientific acumen and innovative thinking have led to significant discoveries and critical insight in elucidating the properties of strongly correlated electron and heavy fermion systems.


He has published more than 100 papers that have been cited cumulatively more than 2,200 times. He is a Fellow of the

American Physical Society and a Los Alamos Fellows' Prize recipient.

Sheffield of the Los Alamos Neutron Science Center (LANSCE) is internationally recognized for his contributions to the development of ultra-high brightness beams and free electron lasers that have formed the basis for an entire generation of intense light sources with applications in fundamental research as well as national security programs. He invented the RF photo-injector and pioneered the concept of self-amplified spontaneous emission, two concepts that underpin modern free electron laser-performance.

Sheffield is a Fellow of the American Physical Society and received the United States Particle Accelerator Prize for Achievement in Accelerator Physics and Technology. He has published more than 150 papers that have been cited cumulatively more than 900 times; he holds three U.S. and international patents.

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