

Tuesday, December 15, 2009

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New American Physical Society Fellows: Chadwick, Jia, Murillo, Zurek

Election is limited to no more than half of 1% of the membership.

The APS Fellows Program recognizes members who have made advances in knowledge through original research and publication or who have made significant and innovative contributions in the application of physics to science and technology. Election to Fellowship is limited to no more than half of 1% of the membership.



Mark B. Chadwick (T-DO)

Mark B. Chadwick (T-DO) was cited for significant and innovative contributions to applied nuclear physics, including medical radiation therapy, nonproliferation, homeland security, the physics of nuclear weapons, and especially to development of the modern ENDF/B-VII data base.

Chadwick, now Deputy Division Leader of the Theoretical Division, came to the Lab in 1995 as a Director's Fellow in the Theoretical Division. He received the 2007 ASC research prize in 2007, the Criticality Safety Program Manager's Award in 2005, two LANL Distinguished Performance Team Awards and five NNSA Awards of Excellence. He has 250 publications of

which over 100 are in refereed research journal papers.

Chadwick's research work is in applied nuclear physics. His work on modeling neutron cross sections on plutonium, americium, uranium and radiochemistry materials — with measurements by collaborators at LANSCE — has established robust metrics for validating nuclear weapons simulations.



Quanxi Jia (MPA-CINT)

Quanxi Jia (MPA-CINT) was cited for pioneering contributions in epitaxial functional metal-oxide films for coated conductors and electronic devices.

Jia came to LANL in 1993 as a staff member. He has more than 300 refereed journal articles, 32 issued patents, and two R&D 100 Awards. Named the Asian-American Engineer of the Year by the Chinese Institute of Engineers USA in 2005, he was also the 2008 recipient of the Federal Laboratory Consortium for Technology Transfer Awards for excellence in technology transfer and a 2008 recipient of an Outstanding Women's Career Development Mentoring Award at LANL. He is known for his innovations in the

field of electronic materials and high-temperature superconductivity.

Michael S. Murillo (P-21) was cited for original

News Release

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Eleven Nonprofit Organizations Receive Community Giving Grants from Los Alamos National Security, LLC

Contact: Steve Sandoval, 505-665-9206, steves@lanl.gov

LOS ALAMOS, New Mexico, December 15, 2009—Eleven local nonprofit organizations with projects supported by Los Alamos National Laboratory employee volunteers received \$75,000 in Community Giving grants from Los Alamos National Security, LLC, the company that manages the Lab for the National Nuclear Security Administration.

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Michael S. Murillo (P-21)

theoretical and computational research in several areas of non-ideal plasmas, including non-equilibrium properties of ultra-cold plasmas, collective properties of dusty plasmas, transport in strongly coupled plasmas, and atomic physics in dense plasmas.

Murillo is a former Director's Postdoctoral Fellow. In 2006 he was a UC, Berkeley Visiting Scholar and in 1997 a Long-Term Visitor at Harvard University. He is a member of the editorial advisory board of High Energy Density Physics and an American Physical Society Outstanding Referee. He is now primarily working on influenza epidemiology.



Wojciech H. Zurek (T-4)

Wojciech H. Zurek (T-4) was cited for his seminal contributions to the theory of quantum decoherence, and his contributions to quantum foundations more generally.

Zurek came to LANL as an J. Robert Oppenheimer Fellow. He was the leader of the Theoretical Astrophysics Group at Los Alamos from 1991 until he was elected a Laboratory Fellow in the Theory Division in 1996.

Developing the theory of decoherence and elucidating its significance for the quantum-to-classical transition is Zurek's major contribution to physics. He also demonstrated (with Wootters) that an unknown quantum

cannot be cloned. This is a fundamental result, and an essential distinction between classical and quantum information. Zurek has vastly extended Kibble's cosmological scenario to develop a successful general theory of phase transition dynamics ("Kibble-Zurek mechanism"), which has been verified experimentally in superconductors and superfluids (including Bose-Einstein condensation).

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