



SYRACUSE UNIVERSITY

The College of Arts and Sciences

Department of Physics

SU PHYSICS NEWS – OCTOBER 2011

Presentations by faculty:

- **Marina Artuso:**
 - talk, “b hadron production and decays at the LHC”, *Brookhaven Forum 2011: a first glimpse at the Terasccale*.
 - attended the *HEPAP Meeting*, Washington DC, where the DPF Task Force on Instrumentation (M.A. member) and the HEPAP University Group (M.A. member) gave their reports.
- **Duncan Brown:** gave a talk to high school physics teachers participating in SUPA <supa.syr.edu> (Project Advance).
- **Simon Catterall:** invited talk at the workshop *Lattice meets BSM Experiment*, Fermilab (October 14-15 2011).
- **Liviu Movileanu:**
 - invited talk, “Engineered Nanopores for Single-molecule Detection”, Department of Theoretical Physics, Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest-Magurele, Romania (October 6, 2011).
 - invited talk, “Engineered Nanopores for Single-molecule Detection”, International Conference *Processes in isotopes and molecules* (PIM-2011), Institute for Research and Development of Isotopic and Molecular Technologies (ICNDTIM), Cluj-Napoca, Cluj-Napoca, Romania (October 1, 2011).
- **Britton Plourde:** invited talk “Quantum Computing with Superconducting Circuits”, NY State Section meeting of the American Physical Society, Oneonta, NY (October 8, 2011).
- **Joseph Schechter:** attended the KMI Inauguration and Sakata 100 Conferences at the University of Nagoya, Japan and gave an invited talk “Testing a model for the puzzling spin 0 mesons” (October 24 – 28, 2011).
- **Richard Schnee:**
 - invited overview talk on “Results of Direct Searches for WIMP Dark Matter” at the *Dark Universe Conference*, Heidelberg, Germany (October 4-7, 2011).
 - contributed talk on “The MiniCLEAN dark matter experiment” at the *American Physical Society's Division of Nuclear Physics* meeting, in East Lansing, MI (October 26-29, 2011).

- **Mitchell Soderberg:** talk ‘Liquid Argon Technology for Neutrinos’ at the *7th International Design Study for the Neutrino Factory* meeting in Arlington, Virginia (October 18, 2011).
- **Sheldon Stone:** invited plenary talk on "Heavy Flavor Physics" on at Brookhaven Forum 2011, *A First Glimpse of the Tera Scale* at Brookhaven National Laboratory, Upton, NY (October 20, 2011).

New Grants and Awards:

- Britton Plourde: received a 2011 IBM Faculty Award for \$34,000 (http://asnews.syr.edu/newsevents_current/News/Plourde_IBM_Award.html).

Outreach:

- **Allen Miller** organized an undergraduate recruitment program *Physics in Your Future*, held on Saturday afternoon, October 22 at the Physics Building, attended by fifteen Central New York high school students. He was assisted undergraduate physics major **Mallory Ringham** and five research groups of the Department providing lab visits.

Other:

- **Duncan Brown** was interviewed for the October 2011 Physics World article "Relativity's New Revolution" <<http://physicsworld.com/cws/article/indepth/47344>>.
- Undergraduate student **Dan Jardin**, working with **Richard Schnee**, presented a poster on “Construction, Testing, and Analysis of Radon Mitigation System” at the *American Physical Society's Division of Nuclear Physics* meeting, in East Lansing, MI (October 26-29, 2011).
- **Edward Lipson** was one of four physicists interviewed for APS News feature article entitled *Profiles in Versatility: Physicists Take the Plunge as Entrepreneurs* (Oct. 2011, Vol. 20, No. 9, pp. 3,7; <http://tinyurl.com/edl-apsnews>; EL photo was not included, for unknown reasons).
- Post-doc **Dhagash Mehta:**
 - invited speaker at SIAM Conference on Applied Algebraic Geometry at North Carolina State University, Raleigh, NC (October 6-9, 2011).
 - won a SIAM Travel Award for Postdocs to go to this conference through the Society of Industrial and Applied Mathematics (October 6-9, 2011).
- **The Movileanu Lab:** A manuscript co-authored by Mohammad Mohammad and Khalil Howard, “Redesign of a plugged beta-barrel membrane protein” is now featured by NewsRx (Atlanta, GA) – World’s Largest Source of Health News, “**Syracuse University Reports Research in Membrane Proteins.**” http://www.physics.syr.edu/~lmovilea/Mohammad_NewsRX_11.pdf
- **Britton Plourde:** accepted an invitation to become an editor for the *IEEE Transactions on Applied Superconductivity*.
- **Kamesh Wali:** article “What are the Building Blocks of the Universe?,” published in *Currents Issues in Cosmology*, Edited by Jean-Claude Packer and Jayant Narlikar (Cambridge University Press).”