

International Conference To Be Held In Honor of Roy P. Daniels Professor and LSU Distinguished Research Master *Jerry P. Draayer*, President of Southeastern Universities Research Association (SURA)

This coming spring (June 4-7, 2012), “**Horizons of Innovative Theories, Experiments, and Supercomputing in Nuclear Physics**” (HITES 2012) – an international conference in honor of Prof. Jerry Draayer to celebrate his renowned research and academic achievements – will welcome more than a hundred participants with about a quarter from abroad: Australia, Bulgaria, Canada, China, Czech Republic, England, France, Germany, Japan, India, Israel, Italy, Mexico, and Russia. The conference will be attended by some of the world’s most prominent nuclear physicists and computer scientists, and many young emerging scientists.

The scientific meeting will be held in the historic French Quarter of New Orleans. It will cover cutting-edge science and will represent a unique synergy of topics related to Draayer’s outstanding research in theoretical and experimental nuclear physics, fundamental physics, and high-performance computing. In particular, presentations will focus on the quest to further understand fundamental properties of nature; physics of quarks/gluons and neutrinos; structure and reactions of nuclei, which hide tremendous amounts of energy with potential to support a broad spectrum of humanitarian needs such as medical, industrial and energy applications; further studies of exotic nuclei and evolution of the universe; as well as the latest advances in computer science.

As part of the conference, Draayer will present a public lecture (June 4, at 5:30 p.m.) that represents a unique opportunity for undergraduate and graduate students to hear about an exciting era of great achievements and awaiting discoveries in nuclear physics, nuclear astrophysics and supercomputing. Furthermore, reaching beyond basic-science research, the meeting will include talks on education, science policy, and international outreach.

Draayer is a professor in the Department of Physics and Astronomy at Louisiana State University as well as President and CEO of the Southeastern Universities Research Association (SURA), a consortium of over 60 research universities in the southern United States. SURA manages and operates the Thomas Jefferson National Accelerator Facility (Jefferson Lab) for the Department of Energy. The nuclear physics research facility provides unique capabilities for a user community of approximately 1,300 researchers from 280 institutions worldwide.



Prior to his current leadership at SURA, Draayer served on the Louisiana Board of Regents as the Associate Commissioner for Sponsored Programs Research & Development. This followed his directorship of the Office of Federal Programs for the Regents. His achievements with the Regents include the establishment of a Joint Faculty Appointment Program that established pairs of hires between Louisiana's historically black colleges and universities and other institutions of higher education.

In his 30+ years as a faculty member in the Department of Physics and Astronomy at Louisiana State University, Draayer has served as Chair of his Department, Vice President of the Faculty Senate, and Chair of the Council for the College of Basic Sciences. He also holds a joint appointment as a professor in the Department of Computer Science. He has sponsored 17 long-term/sabbatical visitors, 15 postdoctoral associates, 17 Ph.D. candidates, plus a complement of M.S. students. Draayer continues as a member of the faculty at LSU.

Draayer is the recipient of numerous awards and distinctions, including LSU Distinguished Research Master (LSU, Engineering, Science & Technology) in 2007, Francis G. Slack Fellow (American Physical Society, Southeastern Section) in 2006, Roy P. Daniels Professor of Physics (LSU) in 2002, Fellow (American Physical Society, Division of Nuclear Physics) in 2000, and Corresponding Member of the Mexican National Academy of Sciences in 1998. He was appointed Guest Professor at the University of Tübingen in Germany (1992-1994) and Associate Professor at the Louis Pasteur University in Strasbourg, France (1991-1992). Professional services include: associate editor of several professional journals, conference organizing committees of many national and international conferences, external reviewer on various national and international university committees, and referee for a wide variety of proposals and journals. Draayer has also served on numerous professional committees, including several of the American Physical Society. In 2010 he received a distinguished alumni award from his high school in Albert Lea, MN, where he served as President of his Senior Class.

Draayer served as principal investigator on numerous NSF and DOE proposals totaling well over \$25 million in awarded grants. He has co-authored four books, published over 250 regular refereed journal articles, and is a regular invited lecturer at national and international scientific conferences which has resulted in an additional 200 publications.

Draayer holds a Ph.D. in Physics and Mathematics (1968) and a B.S. in Physics and Electrical Engineering (1964), both from Iowa State University.

For further information, please visit www.phys.lsu.edu/hites2012.

Contact:

Kristina D. Launey, Research Associate, 225-578-0351 (P), hites2012@phys.lsu.edu, 225-578-5855 (F)
 James P. Vary, Professor of Physics, Iowa State University, 515-294-8894 (P), jvary@iastate.edu, 515-294-6027 (F)

June 4-7, 2012
 New Orleans, Louisiana

Strong/weak interaction
 Beyond Standard model
 Quarks and gluons

Stellar life cycles
 Origin of elements
 Supernovae
 X-ray bursts
 Exotic matter

Isotopes for medicine
 Energy
 Fusion ignition

Applied Physics

Supercomputers
 Large-scale simulations
 Computer science

**Horizons of Innovative Theories,
 Experiments, and Supercomputing**

in Nuclear Physics

International Conference
 in Honor of
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 Prof. Jerry P. Draayer's
 70th Birthday

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