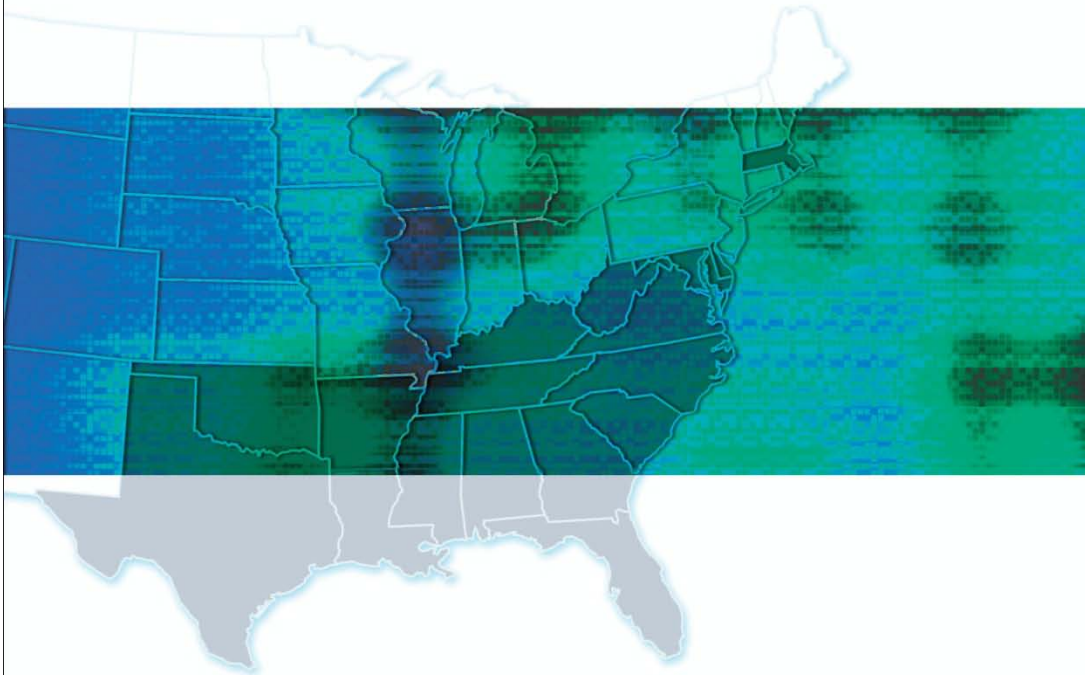




Year In Review:
2010



IMAGINATION
is more important
THAN KNOWLEDGE.

- ALBERT EINSTEIN



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Year In Review: 2010

JEFFERSON LAB/Jefferson Science Associates, LLC

SURA Facilitates Key Land Deal for Future Growth at JLab

For some time, a 43-acre parcel of land – adjacent to the JLab campus and owned by the College of William & Mary Real Estate Foundation – was the subject of interest as it could impact future growth opportunities at the laboratory. With an eye to a future that could include construction of an electron-ion collider (EIC) and staged development of a 4th generation light source accelerator, SURA and JLab leaders drafted an outline of the long-term future of the lab in early 2008.

Later that year, a potential commercial developer expressed an intent to purchase the property for mixed-use development. After considerable interaction with SURA, the developer gave written assurances that would have provided subterranean easement for such future expansion at JLab. However, the economic conditions for the eventual development changed with the onset of the recession.

After critical conversations between SURA leadership and new JSA board member, Virginia Tech President Charles Steger, a new party stepped forward and purchased the land. John Lawson, President & CEO of the W.M. Jordan Company and Virginia Tech's Rector for the Board of Visitors at the time, bought the property from the College of William & Mary Real Estate Foundation.



In a June 18 letter to SURA President Jerry P. Draayer, Lawson reported that his company purchased the land adjacent to the JLab property with an intent to “reserve this property for R&D-related activities of the type that are on going at Jefferson Lab and that serve as a bright beacon for high-impact economic development.” The Foundation indicated that the proceeds from the land sale would help to enable the College to develop property close to the Williamsburg campus for needed student housing.

Draayer later noted that this significant action would insure that options for JLab's future footprint would be protected, and applauded the leadership of Dr. Steger, who also serves as the chair of SURA's Council of Presidents and Executive Committee.

JLab Appoints New Scientists to Leadership Team

In May, the lab announced the appointment of Robert D. McKeown, a leading nuclear physicist and professor at the California Institute of Technology, to the position of deputy director for science.

Montgomery said of McKeown, “His expertise and knowledge will be a tremendous resource for the laboratory, especially as we prepare for the 12 GeV research program and other future scientific ventures.”

McKeown's research interests have included studies of weak interactions in nuclei, neutrino oscillations, parity-violating electron scattering, and the electromagnetic structure of nuclei and nucleons. He first became interested in experimental nuclear physics while an undergraduate student at Stony Brook University in Stony Brook, NY, where he received a B.S. in physics in 1974. He then continued his studies at Princeton University, where he received a Ph.D. in 1979.

After one year as a scientist at Argonne National Laboratory, McKeown took a position as assistant professor of physics at the California Institute of Technology. He became an associate professor in 1986 and a professor in 1992.

Governor Applauds GDCP Appointment

After beginning his duties as deputy director on May 1, McKeown was also named as a Governor's Distinguished CEBAF Professor at The College of William and Mary. To congratulate him on this appointment, Virginia Governor Robert F. McDonnell wrote McKeown a letter of congratulations for the "distinction" he brings to the Newport News-based laboratory.



Robert P. McKeown

"The distinction of receiving the GDCP appointment dates back 25 years when the first professorship was named, demonstrating the close partnership the Commonwealth of Virginia has had with Jefferson Lab, formerly the Continuous Electronic Beam Accelerator Facility, for the past quarter century," Governor McDonnell wrote. "Virginia's ability to assist the Southeastern Universities Research Association in making the decision to locate the research lab in the Commonwealth was due to its financial commitment to help insure the best quality researchers would be attracted to be part of the world class science conducted there."

The GDCP program continues to help attract distinguished, uniquely qualified individuals to JLab. The process for the awarding of these honors starts with a nomination by the Lab Director to the SURA President, who then works to secure the consent and endorsement of the host university. In hosting the GDCP honoree at the College of William & Mary, President Taylor Reveley noted, "Dr. McKeown's candidacy has occasioned especially great enthusiasm among our physics faculty. His position here and at the Jefferson Lab will strengthen the critical ties between the Lab's science program and the academic community."

Earlier in the year, JLab selected Michael R. Pennington, an internationally known physicist, as Associate Director for Theoretical and Computational Physics. Like McKeown, he too has a GDCP with the College of William and Mary.

Pennington served as a Professor of Mathematical Sciences & Physics and Dean for Educational Outreach at the Durham University in England. From 2007, Pennington also served as a member of Jefferson Lab's Program Advisory Committee, a panel of world-leading physicists that reviews and selects experiments to be conducted at the laboratory.

"All of us at the lab feel extremely fortunate and pleased that Mike has agreed to join our staff of outstanding physicists," said Hugh Montgomery, Jefferson Lab's director. "We believe that his experience, knowledge and standing within the international scientific community will make it possible for our Theory Center and the laboratory to remain in the forefront of nuclear physics research."

Pennington, who began his duties at Jefferson Lab on July 1, succeeded David Richards, who has been serving as the laboratory's interim head of theory since October. His research focus is in the theoretical and phenomenological study of the strong nuclear force; he has more than 185 publications to his credit.

In addition to his work for Jefferson Lab, he has served a variety of international science groups, including participation as a member of the CERN SPS Committee and as a member of the DAΦNE Physics Working Group in Frascati, Italy. In 2009, he was named an Outstanding Referee by the American Institute of Physics. Pennington joined Durham University in 1978.

JSA Announces Initiatives Fund Program Awards

In November, JSA announced the award of projects totaling \$574,400 that will be supported by the FY11 JSA Initiatives Fund. JSA owners, SURA and CSC/ATG, established the Initiatives Fund to support programs, initiatives, and activities that further the scientific outreach, and promote the science, education and technology missions of Jefferson Lab in ways that complement its basic and applied research focus. The annual program commitment of \$500,000, plus unused funds from prior years, is administered by SURA for the JSA Programs Committee.

The 2011 evaluation committee, chaired by JSA Programs Committee Chair June Matthews of MIT, included Gail Dodge, Old Dominion University; Gerard Gilfoyle, University of Richmond; Ronald Gilman, Rutgers University; Keith Griffioen, College of William & Mary, Robert McKeown, Jefferson Lab; Daniel Sober, Catholic University, Zisis Papandreou, University of Regina, and Elizabeth Lawson, SURA/JSA. The evaluation report, presented to the committee at its meeting on October 20, was approved unanimously and forwarded to the owners for award.

The FY11 Initiatives Fund Program includes new awards for 31 projects with total contributing/ matching funds of over \$860,000. Over 40% of the \$574,000 in new awards support the education and outreach programs at the Jefferson Lab. The remaining awards support career development, other JLab programs, JLab users initiatives and activities, and several topical science meetings. A complete listing of the FY11 awards can be found at <http://www.jsallc.org/IF/IFProjects.html>.



JSA President and Jefferson Lab Director, Hugh E. Montgomery stated, “After five years of support from the owners for this Program, it is clear that the diverse projects, initiatives, and activities, many of which leverage the commitments of others, continue to add value to the Lab’s programs and help to cultivate the support of the science and user communities.”

In accepting the recommendations from the JSA Programs Committee, JSA co-owner, SURA President and CEO Jerry P. Draayer added, “The Initiatives Fund Program is a valuable resource for seed funding projects that may not have been undertaken otherwise. These investments also support many existing Lab programs and benefit the Lab’s users, students, and young researchers.” JSA co-owner Alan B. Weakley, President, CSC/ATG, added “that the Initiatives Fund Program signals the owners’ commitment to support the mission of Jefferson Lab, including an expectation that it reach out and support K-12 science education.”

JSA / Jefferson Lab Graduate Fellowship Awards

Announced in April, JSA awarded seven JSA/Jefferson Lab graduate fellowships for research related to the science program at the Thomas Jefferson National Accelerator Facility (Jefferson Lab) – a U.S. Department of Energy laboratory managed and operated by JSA. During the 2010-2011 academic year, the following graduate students from SURA member universities worked with JLab scientists of their research proposals.

Dasuni K. Adikaram, Old Dominion University; Lawrence Weinstein, Advisor
William P. Ford, Old Dominion University; J. Wallace Van Orden, Advisor

Carlos G. Granados, Florida International University; Misak Sargsian, Advisor
Jin Huang, Massachusetts Institute of Technology; William Bertozzi, Advisor
Sucheta S. Jawalkar, College of William and Mary; Keith Griffioen, Advisor
John P. Leckey, College of William and Mary; David Armstrong, Advisor
Diancheng Wang, University of Virginia; Xiaochao Zheng, Advisor

Awardees Huang and Leckey are repeat JSA fellowship recipients, both at Jefferson Lab for the current academic year.

First established by the SURA Board of Trustees in 1989, this graduate fellowship program has been continued by JSA for doctoral students at SURA member universities conducting research related to the theoretical and experimental programs at Jefferson Lab, including nuclear and related particle physics, accelerator physics, and the Lab's free electron laser program. Since program inception, 156 fellowships have been awarded to graduate students from 19 different SURA member universities.

Each fellowship award is comprised of one-half of an academic year research assistant stipend, plus a \$2,000 supplement. The home institution matches half of the research assistantship. An additional \$2,000 is available for research related travel support for the student.

The review committee was chaired by JSA Programs Committee chair and JSA Board Director June Matthews, Massachusetts Institute of Technology. "JSA is pleased that these students are involved with the JLab science program and approved experiments. One of the primary goals of the JSA/JLab Fellowship Program is to provide opportunities for qualified students to enhance their research capabilities by linking their academic studies with the Lab's science," said Matthews.

The JSA/JLab Graduate Fellowship Program is supported by the JSA Initiatives Fund.

GWU Student Wins JSA Undergrad Research Assistantship

From the time he was a youngster attending Catholic school in Brooklyn, N.Y., Arun Selvaratnam, was the kind of student who took home as many books as the library would allow. A voracious reader and lover of science and math, by the time he was ready for high school he was also ready to take on his first academic challenge: he applied to New York City's Stuyvesant High School for Math and Science and was accepted. He took eight Advanced Placement courses and, in his junior year, took his first course in physics.

"It really got to the core of how the universe works," he recalled. "Every other discipline I had studied, I wanted to go deeper. I kept wondering 'Why? Why?'" and when I got to physics I found the answers there."

In his senior year, he took AP Physics C, a course that taught him calculus through physics before he had ever taken that math course. Then he entered George Washington University, though he was unsure of his major and envisioned he might end up in the social sciences. Though he dismissed that thought and switched his major to physics and found that the more he learned, the more his passion for it increased.

Last summer, Selvaratnam was selected to participate in the JSA's Undergraduate Research Assistantship Program for Minority Science and Engineering Students. He was nominated by William J. Briscoe, director of the George Washington Center for Nuclear Studies, who referred to Selvaratnam as "one of our best undergraduate physics majors" and suggested that he have the opportunity to work on the Frozen Spin Target, or FROST, experiment at Jefferson Lab, where he would also have the opportunity to work with two GWU graduate students. Under the assistantship, funded through the JSA Initiatives Fund, the junior physics major worked at the lab for eight weeks.

Judi Tull, Feature writer, e-ON Target

INFORMATION TECHNOLOGY

SURA IT Committee and Steering Group

The IT Steering Group (ITSG) provides the leadership function of the SURA IT Committee and is comprised of six members and a Chair, who serve three year terms. Members are selected by the full IT Committee and approved by the Board of Trustees. The IT Committee Chair and a majority of the ITSG must be SURA Trustees. The current ITSG members are:

- Richard Newman, Florida Institute of Technology (IT Committee Acting Chair)
- J.L. Albert, Georgia State University
- Bliss Baily, Auburn University
- Sara Graves, University of Alabama in Huntsville
- Marc Hoit, North Carolina State University
- Charles McMahon, Tulane University
- Brian Voss, Louisiana State University
- Don Riley, University of Maryland College Park, SURA IT Fellow
- Gary Crane, SURA IT Director, Staff Liaison

IT Support for Super-Regional Coastal Modeling Test Bed

To support the SURA Super-Regional Coastal Modeling Test Bed, SURA's IT staff are assisting coastal test bed project researchers with access to and use of large-scale high performance computing and data sharing resources available through Louisiana Optical Network Initiative (LONI) and TeraGrid. By the end of the year, SURA secured allocations totaling 1 million CPU hours on TeraGrid and LONI. Additional allocation requests for 5.3 million CPU hours to TeraGrid and LONI were submitted near the end of the 2010. Access to TeraGrid and LONI allows the Test Bed Inundation Team modelers to compare 2D to 3D models and execute coupled atmospheric and oceanic storm surge models over large physical domains (e.g., a few thousand kilometers) using high resolution spatial grids.

TACC Advanced Data Analysis and Visualization Outreach and Training

In the first year of our subaward with Texas Advanced Computing Center (TACC) in support of their NSF TeraGrid XD Visualization Services award, SURA developed a directory of minority researchers by institution and research domains, engaged multiple dissemination partners and domain science professional societies, and hosted a one day visualization training workshop. The event was attended by researchers from GMU, GWU, Hampton Universities, and the University of the District of Columbia. The participants' research domains included astronomy, energy economics, biomedical, and transportation modeling. Several potential high performance computing and visualization users emerged from the group. It was also clear that additional HPC workshops would be well received.



InCommon Community Deployment Project

SURA, the Mid-Atlantic Crossroads (MAX), InCommon, and the Committee for Institutional Cooperation (CIC) are collaborating on a SURA region InCommon community deployment project. Working with MAX, CIC and Jack Suess (UMBC CIO and Chair of the InCommon Steering Committee)

an informational meeting with SURA member institutions was held to identify institutions interested in participating in a community InCommon deployment project.

Held on October 26-27 in Falls Church, Virginia, the meeting was attended by 26 people from 18 institutions. Attendees received an overview of InCommon Silver from the CIC deployment leads and discussed the steps necessary to implement this higher level of institutional identity assurance. Nine schools have agreed to work collaboratively to deploy InCommon Silver at their campuses.

SURAgriD

SURAgriD is a SURA community collaboration experimenting with the use of shared, multi-campus cyberinfrastructure services in support of research and education. The leadership function of SURAgriD is provided by the SURAgriD Governance Committee (SGC), which is comprised of representatives serving staggered three year terms and elected by the SURAgriD membership and one SURA appointed member. The current composition of the SURAgriD Governance Committee (SGC) includes:

- Art Vandenberg (Georgia State University), Chair
- Eduardo Socolovsky (Norfolk State University), Co-chair
- David Matthews-Morgan (University of Georgia)
- John-Paul Robinson (University of Alabama-Birmingham)
- Phil Smith (Texas Tech University)
- Nicholas Tsinoiremas (University of Miami)
- Phil Yang (George Mason University)
- Gary Crane (SURA-appointed member)



This past summer, the SURAgriD Portal (<http://gridportal.sura.org/>) was successfully transitioned from TACC to a server at the LSU Center for Computation and Technology (LSU CCT). This move was motivated by the decommissioning of the TACC server supporting the SURAgriD portal since SURAgriD's inception in 2003. (<http://gridportal.sura.org/>).

Members of SURAgriD share access to their campuses HPC systems using agreed upon standard software solutions. In 2010 resources available through SURAgriD grew to nearly 4,000 Cores (greater than 32 teraflops) with 6 terabytes of memory and 60 terabytes of storage. The most recent increase in the SURAgriD resource pool is the result of an IBM p575+ donation to University of Miami coordinated by SURA.

AtlanticWave (AWave)

AtlanticWave (A-Wave) has been in production since November 2006 when SURA's investment enabled the establishment of a 10 Gigabit Ethernet wave along the Atlantic rim, from Miami, Florida, to New York City. AtlanticWave is a distributed network exchange point peering fabric along the Atlantic rim, facilitating exchange and peering services between U.S. and international networks connected at the following key exchange points on the U.S. East Coast: International Exchange Points MANLAN in NYC and AMPATH in Miami; Mid-Atlantic Crossroads (MAX) gigapop and NGIX-East in Washington, DC; Southern Crossroads (SoX)/Southern Light Rail (SLR) in Atlanta. AtlanticWave supports communities that need network resources for research between North and South America, and other countries and continents. SURA continues to participate on the Governance Committee of the AtlanticWave collaboration.

AtlanticWave is an integral component of the National Science Foundation (NSF) International Research Network Connections (IRNC) program, which initially funded the FIU and CENIC proposal, creating the

Western-Hemisphere Research and Education Networks – Links Interconnecting Latin America (WHREN-LILA) project. The NSF and FIU established a new 5-year cooperative agreement this summer for the Americas Lightpaths (AmLight) proposal, successor to the WHREN-LILA project. AmLight will continue to evolve the network infrastructure established by the WHREN-LILA project: links between Miami, Florida and Sao Paulo, Brazil, and between Los Angeles, California to Tijuana, Mexico. AmLight will add new links between the U.S. and Texas, and between Sao Paulo, Brazil and Santiago, Chile to better support the U.S. astronomy community in northern Chile.

The MOU between SURA and the collaborating exchange points is scheduled to expire in July 2011. The AtlanticWave Governance Committee is tasked with defining the next stage of AtlanticWave development.

OCEAN / COASTAL RESEARCH

SURA Awarded NOAA Grant to Advance Ocean, Coastal Observation

In June, SURA was awarded a \$4 million grant from the National Oceanic and Atmospheric Administration will help SURA evaluate the readiness of marine forecasts, such as flooding from storm surge or seasonal dead zones. Focused along the Atlantic and Gulf of Mexico coasts, the effort will improve those forecasts for use by emergency managers, scientific researchers and the general public.

The competitive grant was announced June 11 by NOAA’s Integrated Ocean Observing System (IOOS[®]) program for FY10 so that SURA can work with government agencies and researchers to advance information technology and improve understanding of coastal, ocean, and environmental phenomena. IOOS is a tool for tracking, predicting, managing, and adapting to changes in our marine environment.

“Recent advances in science and computing capabilities are leading to improved tools to predict coastal ocean phenomena,” said Zdenka Willis, NOAA IOOS Program Director. “This project creates an objective environment to compare the latest models for improved forecasting that will ultimately benefit the daily lives and livelihoods of millions of Americans.”



Scientists will work to improve the precision of computer models that forecast chronic issues of high relevance in the Atlantic and Gulf regions – such as flooding from storm surge and seasonal depletion of oxygen in shallow waters. They will also explore methods for effectively delivering model results to regional centers, scientists and managers relying on IOOS. The project is intended to identify the most useful models, as well as methods to translate the resulting information to the public.

“We are excited to embark on this collaborative research project and feel uniquely qualified to partner with the federal agencies involved with IOOS in this important effort,” said Jerry P. Draayer, SURA President and CEO. “Improved models will provide better forecast resolution for the Loop Current in the deep Gulf,” Draayer added. “By improving our predictability of coastal and deep water circulation, agencies can more accurately assess impacts of oil spills like the tragedy affecting the Gulf today.”

Congress kick-started the grant opportunity with the inclusion of funding to support such a project in last year’s Consolidated Appropriations Act. The legislation, and NOAA’s subsequent Federal Funding Opportunity announcement, called for inclusion of at least 20 academic and research institutions to participate.

First Budget and Progress Report

The first formal budget report on SURA's Super-Regional Testbed was submitted to NOAA at the end of October. A comprehensive progress report has been compiled and is being refined prior to submission in late December. Progress to date is exceptional. Less than five months since the testbed project began, our teams' unselfish collaboration has clearly demonstrated of how diverse, talented and geographically distributed scientists from academia, federal agencies and the private sector can work together to achieve common goals of national importance. The testbed involves a brain trust of the some of the nation's best university-based modelers working side-by-side with operations-focused federal agency personnel to gain improved predictions of coastal inundation along the U.S. Atlantic and Gulf coasts and oxygen depletion in the Chesapeake Bay and on the Gulf Coast continental shelf. The teams are rapidly configuring models, providing samples of model output to the Cyberinfrastructure team, and gathering observational data to generate model-to-model comparisons in a consistent and robust manner. The Cyberinfrastructure team has developed a model catalog to allow easy browsing of different models.



SURA Co-sponsors Vibrios Conference

SURA co-sponsored a major scientific conference on ocean ecology and marine health held in Mississippi in November. "Vibrios in the Environment 2010" drew 286 scientists and students representing 28 countries, with SURA support funding graduate student awards and participation.

The cutting edge, scientific sessions included a live feed from a CDC epidemiologist investigating the cholera epidemic in Haiti and lively sessions on post-harvest processing of raw oysters, vibrios and climate change, and the microbial degradation of oil in the northern Gulf of Mexico. The event was held at the Beau Rivage Resort in Biloxi, with local assistance provided by the University of Southern Mississippi, a SURA member.

"We were excited to help with this important scientific event and support graduation student participation," said Jerry P. Draayer, SURA President and CEO. "The critical study from this conference will not only encourage future study of ocean health and ecology, but will also help inform SURA's work on a NOAA-funded super-regional testbed project."



In 1980, leading *Vibrio* researchers working in the area of microbial ecology and public health convened a conference in Louisiana entitled, "Vibrios in the Environment." Those proceedings, published 1984, firmly established that the *Vibrio* species were indigenous to marine and estuarine environments. As *Vibrio* research increased for the next 30 years, these organisms have often been at the forefront of basic scientific discovery and the global public health debate.

SURA helped underwrite the conference, including graduate student registrations and the Rita R. Colwell Awards for Outstanding Graduate Student Oral Presentation. Rita Colwell, a co-chair of the event, is a former Director of the National Science Foundation. Other event sponsors included NASA, NOAA, FDA, USDA, Chevron and BP.

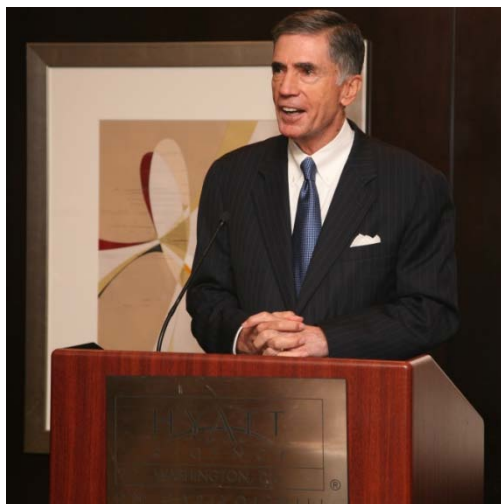
RELATIONS

SURA Presents Distinguished Service Awards

Former Virginia Governor and U.S. Senator Charles S. Robb received SURA's 2010 Distinguished Friend of Science Award at its Board meeting on October 20. The award honors an individual whose extraordinary efforts have helped "fulfill the SURA mission of strengthening the scientific and technical capabilities of the Southeast and nation."

"Governor Robb was a critical player in the early efforts with SURA to secure the winning bid to place Jefferson Lab in Virginia in the early '80's," said Charles W. Steger, President of Virginia Tech and Chair of the SURA Council of Presidents and Executive Committee. "And he continued his advocacy for education, science and research in the U.S. Senate" before leaving the Senate in 2001.

At the time of the U.S. Department of Energy's consideration of bids to design, build and manage the Continuous Electron Beam Accelerator Facility (CEBAF, later Jefferson Lab), SURA's effort was supported by Governor Robb and the Commonwealth. The Newport News-based proposal was accompanied by a pledge of \$1 million in annual state funding plus 17 positions provided through the College of William & Mary.



After graduating from the University of Wisconsin-Madison, Robb served on active duty with the United States Marine Corps, retiring from the Reserve in 1991. He began as the Class Honor Graduate from Marine Officers Basic School in 1961 and ended up as head of the principal recruiting program for Marine officers in 1970. In between, he served in both the 1st and 2nd Marine Divisions and his assignments included duty as a Military Social Aide at the White House and command of an infantry company in combat in Vietnam. He married the former Lynda Bird Johnson in a White House ceremony in 1967 and entered the University of Virginia School of Law in 1970. After clerking for a federal judge and working in private law practice in Northern Virginia, Robb's started his political career by winning the lieutenant governor's race in 1977. He served as governor from 1982 to 1986 before being elected to his first of two terms the U.S. Senate in 1988. Robb served as a member and chair of the U.S. Naval Academy Board of Visitors and in 2004 was appointed by President George W. Bush to co-chair of the Iraq Intelligence Committee. He currently serves on the Board of Trustees for the Center for the Study of the Presidency and Congress and is a Distinguished Professor of Law and Public Policy at George Mason University.

SURA's Executive Committee manages the solicitation, screening and selection of the recipient for this award. Past honorees included U.S. Senators Lamar Alexander (Tennessee), John Warner (Virginia), and Norman Augustine, former CEO of Lockheed Martin and advocate for American leadership in research and innovation. Robb was presented the award and a \$20,000 honorarium at a reception held in conjunction with the SURA Board of Trustees Fall Meeting in Washington, DC.

The SURA Distinguished Service Awards – the Distinguished Friend of Science Award and Distinguished Scientist Award – were established in 2006 to commemorate the organization's 25th Anniversary.

Distinguished Scientist Award

SURA presented its 2010 Distinguished Scientist Award to Nicholas A. Peppas, Fletcher Stuckey Pratt Chair in Engineering, Chairman of the Department of Biomedical Engineering, and Professor of Chemical Engineering, Biomedical Engineering and Pharmacy at The University of Texas at Austin.

The annual honor goes to a research scientist whose extraordinary work fulfills the SURA mission of “fostering excellence in scientific research.” The award and its \$20,000 honorarium were presented to Peppas on March 10, in conjunction with the SURA Spring Board of Trustees meeting being held at Duke University in Durham, North Carolina.

“Dr. Peppas is an internationally recognized leader in biomedical and pharmaceutical engineering. As an academician and researcher, he brings great distinction to his institution, his state and our country,” said Dr. Steger.



SURA Board of Trustees Chair Jim Siedow, Peppas and SURA President & CEO Jerry Draayer

In his 34 year career in research, he has become a leading scientist, inventor and pacesetter in the field of drug delivery and controlled release – a field that he and MIT’s Robert Langer developed into a mature field of scholarly and applied research. According to UT Austin President William Powers, Jr., who nominated Peppas for the honor, “He is an international leader in biomaterials and bionanotechnology, and has contributed seminal work in the field of feedback-controlled biomedical devices. His contributions have been translated into more than twenty medical products with multibillion dollar markets.”

Peppas has been recognized with more than 120 major awards, including the Charles Stine Materials Award (1984), the William H. Walker Award (2006), the Jay Bailey Biological Engineering Award (2006), the Institute Lecture (2007), and the Founders Award (2008) – all from the American Institute for Chemical Engineering. AIChE also named him one of the top 100 most influential chemical engineers in the world. Peppas also received the ASSE Curtis McGraw Award (1988), the American Chemical Society’s Newsmaker of the Year Award (2002), the Acta Biomaterialia Gold Medal (2010) and the Zyma Foundation Award (1982). In 2006, he was elected to the National Academy of Engineering, in 2008 to the Institute of Medicine of the National Academies, and in 2005 to the National Academy of France.

President Powers also said, “Peppas is not only an exceptional ambassador of the biomedical field, but also an eloquent teacher and educator.” Peppas has supervised 188 graduate students and visiting scientists, including 84 Ph.D.s – 36 of which are now professors at other universities. He has also directed over 650 undergraduates who have worked in his lab.

Peppas is the author of 1,075 publications, 350 proceedings papers and preprints, 320 abstracts, and 35 patents. He is the co-author or co-editor of 27 books and volumes. Further, he has given over 270 invited seminars and 900 scientific presentations in 32 countries. As an international ambassador of biomedical engineering, he has received honorary doctorates from the Universities of Ghent (Belgium), Parma (Italy), and Athens (Greece.)

SURA’s Relations Committee manages the solicitation, screening and selection of the recipient of this award from a SURA member institution. John Noftinger, Vice Provost for Research and Public Service at the James Madison University, is the chair of the selection committee for SURA.

Each of SURA's 62 member institutions is eligible to make a nomination for the SURA Distinguished Service Awards.

Congress Reauthorizes COMPETES Law, With Support of SURA, Innovation Task Force

With the landmark America COMPETES legislation left to expire due to election-year stalemate, Congress passed the bill to continue growth in the research and innovation budgets of key federal agencies. With focused pressure from several groups, including the Task Force for American Innovation, of which SURA is a member, the bill was approved by the House 228-130 and passed the Senate by unanimous consent.

In letters to Congressional leaders, followed up with lobbying visits, the Task Force stated, "When the COMPETES Act was enacted in 2007, it provided the nation with a broad blueprint for strengthening the pillars of American innovation and competitiveness: increasing the nation's commitment to basic research, strengthening STEM education, and fostering a business environment to drive innovation." It went on to explain the recommendations came from the National Academies' report, "Rising Above the Gathering Storm," authored by a distinguished panel of educators, innovators, and scientists.

In letters from July to November, the task force urged that "COMPETES would underline our nation's commitment to policies that strengthen America's talent pool and provide continued support for long-term basic science, ensuring that American innovators continue to produce the discoveries that create new technologies, new industries, and high value jobs for Americans."

The Task Force on American Innovation is a coalition of several major high-tech corporations, universities and scientific societies. The President signed the reauthorization legislation on January 4, 2011.



SURA Joins TFAI In Message To Fiscal Responsibility Commission

Prior to the mid-term elections last fall, SURA joined the Task Force on American Innovation in applauding the work of the President's National Commission on Fiscal Responsibility and Reform, and urging that they protect the nation's "innovation path" from cuts that "provide a better life for all Americans."

The 18-member, bi-partisan commission – co-chaired by former Clinton Chief of Staff Erskine Bowles and former U.S. Senator Alan Simpson of Wyoming – was created by President Obama's executive order on a February 18, 2010. It was charged with identifying policies to improve the nation's fiscal situation in the medium term and to achieve fiscal sustainability over the long run.

The October 13 letter from the TFAI urged the commission "to recognize the importance of keeping our nation on an innovation path that makes it possible for our economy to grow and our citizens to prosper." The letter went on, "Ultimately, the point of fiscal responsibility is to provide a better life for all Americans, especially future generations. And while reducing deficits is necessary for achieving long-term prosperity, it is equally necessary that we continue to make the new investments in science and technology that for more than half a century have provided the foundation for innovation and economic growth in our country."

The letter added, "Economic analyses generally attribute more than half of all economic growth in the United States since the end of World War II to technological advances that have driven innovation and productivity. Those advances – such as the laser; the Internet and its companion, the Web; and the large-scale integrated circuit – all had their origins in long-term research, both basic and applied."

Ultimately, one of the 10 guiding principles and values agreed to by the commission in their December report – *The Moment of Truth* – was to “promote economic growth and keep America competitive.” It stated that cutting red tape and unproductive government spending is necessary, as is investing in “education, infrastructure, and high-value research and development to help our economy grow, keep us globally competitive, and make it easier for businesses to create jobs.”

While appropriations and short-term budget negotiations for FY11 continued into the early part of 2011, it is anticipated that the commission’s recommendations will play a role in longer term deficit reduction talks expected in Washington this year.

ADMINISTRATION

Strategic/Business Plan, “Risk Assessment” Progress Continues

As noted in the 2009 Year in Review, SURA engaged in a strategic/business plan process that year to develop a sustainable rolling, five-year business plan and to review strategic objectives beyond budgetary considerations, including internal audit findings.

As reported at Board of Trustees meetings in 2010, this process saw both FY10 and FY11 budget targets successfully executed. The overall goal is to lower the ~\$3M portfolio reliance in FY09 to a \$1.25M reliance in FY14 – a plan reviewed and supported by the SURA Executive Committee and Board of Trustees. While the approved targeted improvement for FY10 was \$725K, the actual FY10 improvement was \$884K. In like manner, the targeted improvement for FY11 was set at \$400K; while the approved budget was set for a \$410K improvement. This accomplishes over 70% of the budget improvements on the 5 year plan by the end of FY11 on September 30, 2011.

The other key objective in this process has been to address the Beers + Cutler Risk Assessment report performed for SURA in December 2008, which reviewed a wide range of areas including “strategic, financial, operational, compliance, technological, fraud, and reputation risks.” SURA completed a comprehensive report on progress against these items at the end of 2010. The report expanded upon earlier updates to demonstrate what SURA has achieved in this arena over the previous two years. Among the 14 risk areas identified, financial operations were the primary focus of Baker Tilly’s (previously Beers + Cutler) ongoing review. The BT team helped develop and monitor an action plan to implement their recommendations – generating positive results and providing SURA with an internal framework for completing implementation of the final phase of the recommended improvements in these areas.

SURA’s “Status of Risk Assessment Report” was reviewed by Baker Tilly, which January 13, 2011 commented, SURA “has taken these issues seriously, assessed various options, and continues to address the identified risks on an iterative basis.”

A copy of the report and Baker Tilly’s letter is available to Trustees and Council members upon request.

SURA to Sponsor Joint NSBP/NSHP Meeting

SURA submitted a proposal to the National Science Foundation to sponsor the Joint Annual Meeting of the National Society of Black Physicists (NSBP) and the National Society of Hispanic Physicists (NSHP) July 1. A preliminary award notice was received in late 2010.



After review and recommendation by the SURA Development Committee in 2009, SURA eventually signed a Conference Support Agreement to sponsor the event following approval by the Executive Committee. Final plans will be made for a Fall 2011 event to take place in Austin, Texas.

**SOUTHEASTERN UNIVERSITIES RESEARCH
ASSOCIATION, INC.**

Consolidated Statements of Financial Position

September 30, 2010 and 2009

Assets	<u>2010</u>	<u>2009</u>
Current assets:		
Cash and cash equivalents	\$ 9,400,711	3,197,679
Accounts receivable, net	24,016,349	15,309,582
Prepaid assets	<u>329,931</u>	<u>412,948</u>
Total current assets	33,746,991	18,920,209
Investments, net	19,998,016	22,562,339
Property and equipment, net	<u>1,010,053</u>	<u>1,040,121</u>
Total assets	\$ <u>54,755,060</u>	<u>42,522,669</u>
Liabilities and Net Assets		
Current liabilities:		
Accounts payable and accrued expenses	\$ 27,374,463	17,987,032
Deferred revenue	5,729,433	249,931
Deferred rent	122,488	133,771
Lines of credit	<u>1,850,000</u>	<u>3,650,000</u>
Total current liabilities	35,076,384	22,020,734
Minority interest	<u>287,936</u>	<u>334,300</u>
Total liabilities	35,364,320	22,355,034
Commitments and contingencies		
Unrestricted net assets	<u>19,390,740</u>	<u>20,167,635</u>
Total liabilities and net assets	\$ <u>54,755,060</u>	<u>42,522,669</u>

**SOUTHEASTERN UNIVERSITIES RESEARCH
ASSOCIATION, INC.**

Consolidated Statements of Activities

Years ended September 30, 2010 and 2009

	<u>2010</u>	<u>2009</u>
Revenues:		
DOE contract revenues	\$ 181,985,546	114,973,570
DOE management fees	2,914,000	3,007,000
Grant revenues	431,997	704,329
Contributed facilities, services, and equipment	721,883	1,097,157
Commonwealth of Virginia funding	1,703,204	1,268,437
Membership fees	227,125	211,375
Other	<u>1,091,882</u>	<u>1,325,589</u>
Total revenues	<u>189,075,637</u>	<u>122,587,457</u>
Expenses:		
Salaries and fringe benefits	78,374,645	71,942,607
Materials and supplies	34,201,599	14,077,126
Professional services	23,512,511	12,089,822
Utilities	9,154,375	9,744,510
Capital procurements	33,008,912	6,180,457
Plant and equipment maintenance	4,039,854	3,425,568
Travel	4,482,276	3,677,416
Rent	1,703,882	1,671,045
Insurance	321,478	346,210
Depreciation and amortization	45,464	84,547
Minority interest in net income of Jefferson Science Associates, LLC	889,924	1,007,775
Other	<u>1,428,801</u>	<u>1,475,180</u>
Total expenses	191,163,721	125,722,263
Operating loss	(2,088,084)	(3,134,806)
Nonoperating activities:		
Interest and dividends, net of fees	410,174	585,723
Net realized and unrealized gain (loss) on investments	<u>901,015</u>	<u>(1,601,675)</u>
Net nonoperating income (loss)	<u>1,311,189</u>	<u>(1,015,952)</u>
Changes in unrestricted net assets	(776,895)	(4,150,758)
Unrestricted net assets at beginning of year	<u>20,167,635</u>	<u>24,318,393</u>
Unrestricted net assets at end of year	\$ <u><u>19,390,740</u></u>	<u><u>20,167,635</u></u>

SURA MEMBER INSTITUTIONS

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 The University of Alabama in Huntsville
 University of Arkansas
 Auburn University
 Baylor University
 The Catholic University of America
 University of Central Florida
 Christopher Newport University
 Clemson University
 University of Delaware
 Duke University
 East Carolina University
 University of Florida
 Florida Atlantic University
 Florida Institute of Technology
 Florida International University
 Florida State University
 George Mason University
 The George Washington University
 Georgetown University
 The University of Georgia
 Georgia Institute of Technology
 Georgia State University
 Hampton University
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 James Madison University
 University of Kentucky
 University of Louisiana at Lafayette
 Louisiana State University
 Louisiana Tech University
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 University of Maryland, Baltimore County
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 The University of Mississippi
 Mississippi State University
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 North Carolina A&T State University
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 North Carolina State University
 The University of Oklahoma
 Old Dominion University
 University of Regina
 Rice University
 University of Richmond
 University of South Carolina
 University of South Florida
 The University of Southern Mississippi
 The University of Tennessee
 The University of Texas at Austin
 Texas A&M University
 Tulane University
 Vanderbilt University
 University of Virginia
 Virginia Commonwealth University
 Virginia Polytechnic Institute and State University
 Virginia State University
 West Virginia University
 College of William and Mary

SURA President and CEO

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Idaho State University

Philip Cole

* = SURA Executive Committee Member

SURA STAFF / LEADERSHIP:

Name	Title
Akli, Linda	IT Initiatives Program Manager
Bjonerud, Peter	Chief Financial Officer and Corporate Treasurer / JSA Treasurer
Crane, Gary	Director of IT Initiatives
Cravens, Jeri	Controller
Draayer, Jerry	President and CEO
Durham, Rose	Residence Facility Manager
Holly, John	Program Administrator
Kubiak, Greg	Chief Operating Officer & Relations/Communications Director
Lawson, Elizabeth	Chief Governance Officer & Principal JSA/JLab Liaison Corporate Secretary / JSA Secretary
Miller, Lisa	Program Administrator
Moy, Russell	Chief Development Officer & General Counsel
Pirtle-Hubbard, A'Fenia	Senior Staff Accountant
Quach, Thanh	Accounting & Grants Administrator
Smith, Elizabeth	Coastal Research Program Manager
Stout, Janette	Director of Administration & Human Resource Services
Wright, Don	Director of Coastal Research

SURA MISSION:

The Southeastern Universities Research Association, Inc. (SURA) is a non-stock, non-profit consortium incorporated in the Commonwealth of Virginia in 1980 exclusively for charitable, scientific and educational purposes. The SURA membership is comprised of over 60 leading research institutions in the southern United States and Washington, DC. SURA's mission is to serve as an entity by which colleges, universities and other organizations may cooperate with one another, government and industry, developing, and using laboratories and other research facilities, and in furthering knowledge and the application of that knowledge in the physical, biological, and other natural sciences and engineering.