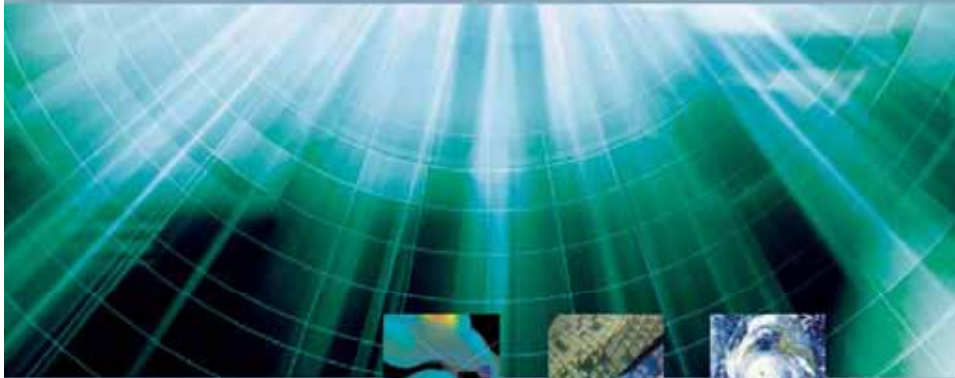


Southeastern Universities Research Association



SOMEWHERE,
something incredible
IS WAITING TO BE known.

— CARL SAGAN



SURA Board of Trustees

10 & 11 March 2010

Duke University
Durham, NC



President's Report
Jerry P. Draayer

JSA – Governance

- ✓ **SURA is the Administrative and Tax Partner for the Jefferson Science Associates, LLC; SURA's Corporate Treasurer and Corporate Secretary serve as the JSA Treasurer and JSA Secretary**
- ✓ **The JSA Board is comprised of 10 voting directors: 6 SURA-appointed directors (including 2 presidents from the Council of Presidents) and 4 CSC/ATG-appointed directors; JSA President/JLab Director is a non-voting member of the Board**
- ✓ **Seven committees carry out the responsibilities of the Board: Science Council, JSA Programs, Relations & Outreach, Operations, Safety & Risk Management, Finance & Audit, and Compensation**
- ✓ **SURA, as the science partner, provides reach-back through its directors to ensure that the Lab is appropriately advised on programmatic matters**
- ✓ **SURA provides reach-back and support to JLab through its relations and outreach program and strategy; important benefit of SURA's reach-back is the continuation of the Commonwealth of Virginia Governor's Distinguished CEBAF Professor/Science programs**
- ✓ **SURA provides \$300K (CSC/ATG provides \$200K) for a total of \$500K per year toward an Initiatives Fund Program. Programs is managed and administered by SURA**
- ✓ **SURA provides the 42-room Residence Facility at affordable rates for Lab users and visitors during their Jefferson Lab stays**

JSA Programs Committee

- ✓ **Committee under new leadership, June Matthews, who chaired the Committee for two terms until 2007. Matthews is now a director on JSA Board of Directors**
 - **Committee revised its charter to more closely align its responsibilities with the other JSA committees**
- ✓ **First quarter FY2010 Performance Evaluation and Measurement Plan assessment, Goal 4, presented to DOE – satisfactorily meeting ‘notable outcomes’ of the three objectives**
- ✓ **SURA’s relations program and strategy resulted in positive FY2010 appropriations from DOE NP and from Commonwealth of Virginia (details in Relations report)**
- ✓ **FY2010 Initiatives Fund Program totaling \$665K includes 27 new projects and 14 prior year projects, many of which are innovative funding sources to seed fund projects; over half of the new projects have other source funding**
- ✓ **SURA Residence Facility CY2009 occupancy was at 70% (\$48.15 ADR) compared to the 58% (\$66.02 ADR) for the Hampton/Newport News hotels**
 - **SURA management reviewing alternative approach to renovation and upgrade of Residence Facility following implementation issues with multi-year approach**

Information Technology

Programs/Program Development

IT Steering Group developing new focus:

- ✓ Exploring Regional Undergraduate Research Support Program Utilizing NC State's VCL platform



SURAGRID Governance Committee leading SURAGRID operational improvements

SERON – led by Phil Halstead of Florida LambdaRail, is actively sharing best practices and concepts for regional broadband stimulus funding activities



SURA supported program enabling multi-gigabit connectivity between North & South America

External Funding Activities

Actively seeking support in two areas:

- ✓ Regional cloud and grid computing initiatives
- ✓ Regional and national CI outreach programs for and among under-served communities

SURA is a funded outreach partner in TACC's \$7M NSF visualization and data analysis services award

Developing proposals with new and existing partners:

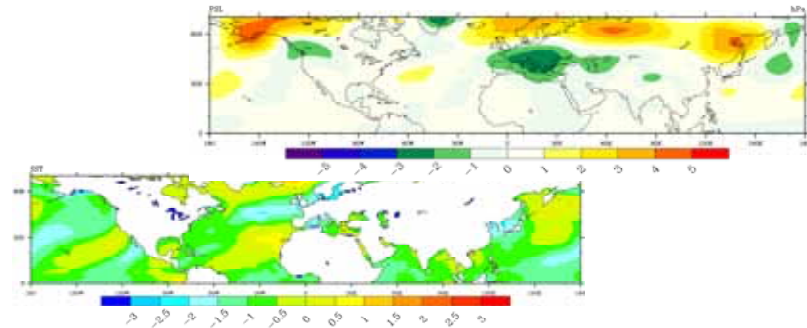
- ✓ National Center for Supercomputing Applications
- ✓ Texas Advanced Computing Center
- ✓ Open Science Grid
- ✓ Virtual Computing Lab Academic Consortium





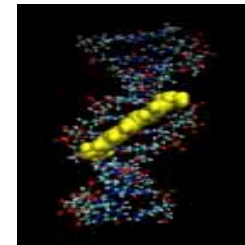
“Promoting excellence for research and education enterprises by fostering collaborative engagement in cyberinfrastructure across the region.”

- ✓ **Membership: 35 current participants**
- ✓ **Resource pool: 27.7 TF capacity, and expanding**
- ✓ **Focused on securing external funding for program**
- ✓ **Supporting a growing set of research applications**



UDel – Climate Modeling ↑

GSU – Comp Chemistry →



SURAgird Usage:

- ✓ **7 research applications deployed at 8 institutions**
- ✓ **16 applications ported for demos and production**
- ✓ **Research domains include coastal research, climate modeling, biomedical research, turbulence studies, and GIS**

Coastal & Environmental Research

The SURA Coastal Ocean Observing and Predicting Program (SCOOP) has terminated. The next phase of activities will involve a broader set of science domains / objectives and expanded teams of academic and federal scientists.

✓ ~~“Old” SCOOP Goals –~~

- Create a network of observations from existing regional and national assets
- Support data exchange for wind- and wave-driven storm surge models
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✓ SCOOP Accomplishments –

- Services that coordinate/standardize access to distributed, Web-accessible resources (data, sensor networks, computing resources, etc.)
- SCOOP Demo- see <http://www.OpenIOOS.org>
- Final Report to NOAA to November 2009
- Future Directions - The Distributed Coastal Laboratory will utilize SCOOP infrastructure

✓ ~~“New” C&E Research Goals –~~

- Enable discovery of diverse phenomena
- Couple observation and modeling of processes across science domains
- Enable high-resolution studies of multi-scale phenomena
- Advance informatics services

✓ New C & E Science Domains –

- Coastal Inundation
- Estuarine and Shelf Hypoxia
- Ecosystem forecasting
- Landscape hydrology
- Impacts of climate & sea level change

C&E Research - Funding Pursuits

IOOS Modeling Testbed –

The omnibus spending bill that passed in the Senate in December included \$4.0 M in the NOAA/IOOS budget to support a super regional modeling testbed for the Atlantic and Gulf Coasts. A proposal entitled **A SUPER-REGIONAL TESTBED TO IMPROVE MODELS OF ENVIRONMENTAL PROCESSES ON THE U.S. ATLANTIC AND GULF OF MEXICO COASTS** was submitted on February 18. If the proposal is successful, funding will go to 18 SURA institutions.

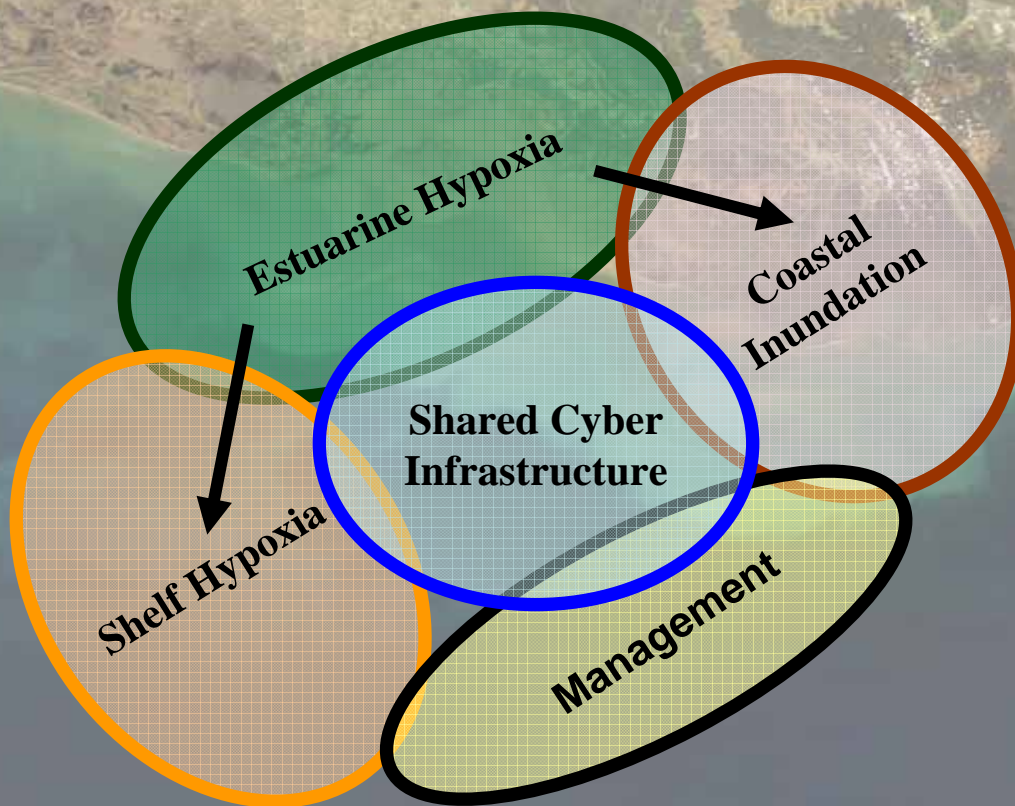
Other Solicitations –

- ✓ **NSF SDCI: SDCI Data Improvement – Sensor Data Integration System, \$1M / year for 3 years ~ \$300K for SURA). Submitted Feb 26, 2010**

- ✓ **NSF: OOI (Ocean Observatories Initiatives); Bermudez, co-PI; Award - \$80K; Partners: RPI, MBARI, SDSC, UCSD**
- ✓ **NSF: Coastal Zone Environment Community Network; Bermudez, PI; Request - \$130K; Partners: UMASS-Boston, EOOS, MOP, GoMOOS**
- ✓ **NSF: Earth Sciences Semantic Interoperability Network; Bermudez, PI; Request - \$744K; Partners: SDSC and MBARI**
- ✓ **SBIR - Sensor Management Tool for use with NASA World Wind; Bermudez, co-PI; Request - \$30K / \$130K; Partners: Intelligent Automation, Inc.,**

IOOS Super Regional Modeling Testbed

The goal of this activity is to create a multi-disciplinary, community-modeling testbed that will facilitate improved operational coastal ocean prediction. Pilot testbed projects will address three chronic issues: (1) *coastal inundation*; (2) *estuarine hypoxia*; and (3) *shelf hypoxia*. An overarching cyberinfrastructure (CI) will support the three issue-motivated science themes. FY 10 Budget: \$4M



SURA's Partners:

- 1) **Federal:** NOAA; NAVY-NRL; NASA; USGS; USCG; USACE; EPA
- 2) **SURA Institutions:** UDel; VIMS; UMCES; UF; USF; TAMU; USM; ODU; NCSU; UNC; Rutgers; MSU; UAH; LSU; FSU
- 3) **Non-SURA Institutions:** WHOI; UND; UMASS; UCol; Dalhousie
- 4) **Regional Associations:** NERACOOS; MACOORA; SECOORA; NGI; GCOOS-RA; GoMOOS; CRC
- 5) **Industry:** ASA; Deltares

Development Highlights (2)

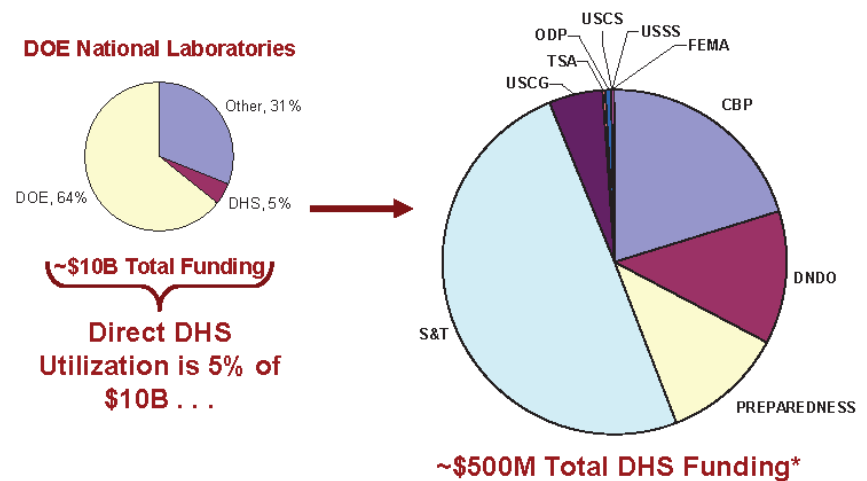
Department of Homeland Security

- ✓ SURA-JLab meeting with DHS Office of National Labs on Feb 24
- ✓ Possible DHS interest in JLab terahertz, imaging, radiation detection, and accelerator expertise
- ✓ Homeland Security Act (2002) established “Office of National Laboratories” to facilitate DHS access to DOE national labs and sites; 11 DOE National Labs and sites support DHS mission (5 from Office of Science)



Homeland Security

S&T and Other DHS Components Utilize DOE National Laboratories



* Data from DHS Projects Active in FY 2006

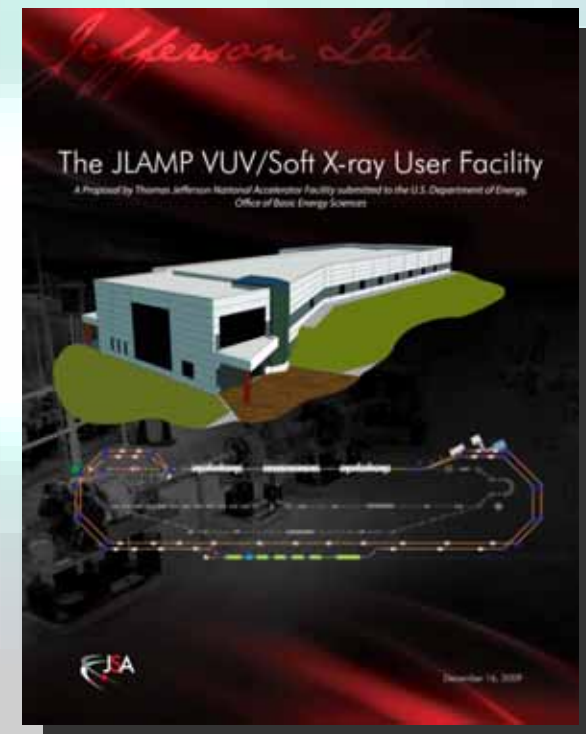
Development Highlights (3)

JLab Establishes Tech Transfer Working Group with SURA & CSC Members

- ✓ Launching new initiatives to enhance Tech Transfer effectiveness, including database/workflow software upgrades, participation in online nonprofit technology 'catalog,' outreach and staff training on new software and to promote awareness

JLab Photon Science

- ✓ JLAMP proposal submitted to office of science (December 2009); research applications in chemistry, materials, and biology
- ✓ Terhertz facility (described above)



Relations & Communications

- ✓ **JLab Federal Funds, FY11:** Supporting *President's Budget Request*, including \$36M for 12 GeV
- ✓ **JLab Virginia Funds, FY11-12:** Final \$3M for 12 GeV Remains in Biennial Budget
- ✓ **Coastal & Environmental Research:** Continued Support for Funding Super Regional Testbed in FY11
- ✓ **Distinguished Service Awards:** Honored Nicholas Pappas, UT-Austin Last Evening – Seek Nominations for Friend of Science in near future
- ✓ **Communications** – Watch for “Year in Review”; Transparency to Trustees; Enhanced Messaging ...



Nicholas Peppas
SURA Distinguished
Scientist - 2010



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