



Florida ExpertNet

A Presentation to the Board of Governors

R. E. LeMon, Vice Chancellor, Board of Governors
Rebecca Augustyniak, Center for Applied Research and Public Service

March 6, 2008

What is ExpertNet?

A Single Access Point to Expertise and Intellectual Capital in the SUS

- o **Purpose and Benefits**
 - o Facilitate the identification of expertise
 - o Promote and increase collaboration
 - o Encourage industry-government linkages
 - o Promote licensing, commercialization, and contracts
- o **History**
 - o Originally created in 1999 to work with the public sector
 - o Revised in 2006 with an expanded focus on emphasizing economic development
 - o Over 20,000 visitors to the site each year



Leading-Edge Research

[Biotechnology](#)[Nanotechnology](#)[Photonics/Optical Technology](#)[Advanced Materials](#)[Alternative Energy Sources](#)[Bioterrorism](#)[Aging](#)[Cancer Research](#)[Magnetic Fields](#)

Universities



For more information about research in Florida's universities click on the links below:

[Florida A&M University](#)
[Florida Atlantic University](#)
[Florida Gulf Coast University](#)
[Florida International University](#)
[Florida State University](#)
[New College of Florida](#)
[University of Central Florida](#)
[University of Florida](#)
[University of Miami](#)
[University of North Florida](#)
[University of South Florida](#)
[University of West Florida](#)

News

New College leads research on red tide policy

The Marine Policy Institute, directed by assistant professor Dr. Frank Alcock, released its first policy report on red tide in Florida. The . . . [More](#)

Global Living Laboratory for Cyber-Infrastructure Application Enablement to be based at FIU

The new institute is funded by NSF to study how to best use the cyber-infrastructure for tackling societal problems. The project will focus on areas. . . [More](#)

NSF ranks FAMU 2nd for increase in scientific publishing

FAMU has increased its scientific publishing by 116 percent since the late 1990s, making it number 2 for growth as identified by the National Science. . . [More](#)



Too much as well as too little rain can cause problems for planners in agriculture, construction, and engineering.

FAMU associate professor Dr. O.S. Mbuya co-authors two chapters explaining the effects of rainfall and how to measure soil moisture. [More](#)



On the road to the 'hydrogen economy'

UCF Florida Solar Energy Center (FSEC) has received a contract to develop a screening apparatus to identify superior hydrogen storage compounds. . . . [More](#)

UF College of Medicine professor receives \$300,000 grant from breast cancer foundation.

The Susan G. Koman for the Cure breast cancer foundation awards Vita Golubovskaya a three year grant to study the interaction of two key proteins. . . [More](#)

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The Clearinghouse for Applied
Research and Public Service



Connecting business, industry, and government
with resources and expertise in Florida's universities

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Leading Edge - Biotechnology

Upcoming Events

10/15 - 10/17/2007 [BioFlorida's 10th Annual Conference](#)

Publications

Florida Has Implemented Promising Biotechnology Initiatives, But Faces Challenges: Report No. 06-71
Office of Program Policy Analysis & Government Accountability, Florida Legislature, November 2006.

Research Centers and Institutes

State

Centers of Excellence	University
Center of Excellence in Biomedical and Marine Biotechnology	Florida Atlantic University
Center of Excellence for Regenerative Health Biotechnology	University of Florida
Center of Excellence for Aging and Brain Repair	University of South Florida

Centers/Institutes	University
Center for Molecular Biology and Biotechnology	Florida Atlantic University
Interdisciplinary Center for Biotechnology Research	University of Florida
UF Genetics Institute	University of Florida

Incubators	University
Sid Martin Biotechnology Incubator	University of Florida

National

Centers/Institutes	University
National High Magnetic Field Laboratory	Florida State University/University of Florida
Florida Sea Grant Marine Biotechnology	University of Florida (marine biotechnology)

Associates/Partners/Resources



Connecting business, industry, and government
with resources and expertise in Florida's universities

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Experts

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Basic Search

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Quick Stats

University	Experts
Florida A&M University	219
Florida Atlantic University	109
Florida Gulf Coast University	87
Florida International University	149
Florida State University	1901
University of Central Florida	454
University of Florida	2788
University of North Florida	124
University of South Florida	1316
University of West Florida	230

In the Spotlight

Charles McClure
involved in variety of
information policy
issues

The FSU Francis Eppes Professor, College of Information works on privacy issues related to Homeland Security and the Patriot Act, the. . . [More](#)



Richard Dickinson,
Professor of Chemical
Engineering

The field of cellular bioengineering uses engineering principles to study the behavior of cells. Dr. Dickinson studies the interaction of the. . . [More](#)



Karen Berkley studies
costliest health
problem - chronic pain

FSU MacKenzie Professor in the Neuroscience Program has studied chronic pain for over 35 years. Her research includes studies of gynecological pain,. . . [More](#)



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Quick Stats

University	Funded Projects
Florida A&M University	1295
Florida Atlantic University	425
Florida Gulf Coast University	501
Florida International University	435
Florida State University	23733
University of Central Florida	4851
University of Florida	28453
University of North Florida	621
University of South Florida	9564
University of West Florida	2448

In the Spotlight

International collaborative project to explore the effects ocean upwelling on climate change.

The the goal of the DIMES project is to measure the nature of deep upwelling in the Southern Ocean and determine its role in climate change. FSU is. . . [More](#)

Medical lab in the palm of your hand

Associate professor of chemistry and biochemistry Thomas Fischer is part of a team of researchers developing a 'lab on a chip'. [More](#)

Machines for growing stem cells

Associate Professor Teng Ma of the FAMU-FSU College of Engineering has developed a stem cell bioreactor which improves the ability to grow adult stem. . . [More](#)

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Center/Institute Name	University
Center for Environmental Policy	University of Florida
Center for Plasma Science and Technology (CePaST)	Florida A&M University
Clean Energy Research Center	University of South Florida
Evelyn F. & William L. McKnight Brain Institute of the University of Florida	University of Florida
FIU Applied Research Center	Florida International University
Florida Center for Renewable Chemicals and Fuels (FCRC)	University of Florida
Florida Institute for Sustainable Energy	University of Florida
Florida Solar Energy Center	University of Central Florida
Institute for High Energy Physics and Astrophysics (IHEPA)	University of Florida
Interdisciplinary Center for Aeronomy and Other Atmospheric Sciences (ICAAS)	University of Florida
Powell Center for Construction and Environment	University of Florida
Public Utility Research Center	University of Florida

Robert F. Lanzillotti
Sustainable Energy

Centers/Institutes Overview	
Name: Center for Plasma Science and Technology (CePaST)	
University: Florida A&M University	
Director: Joseph Johnson	
Address: Center for Plasma Science and Technology Florida A&M University 2077 East Paul Dirac Dr. Tallahassee, FL 32310 Tallahassee, FL 32310	
Phone: 561-2471	
E-mail: joseph.johnsoniii@fam.u.edu	
URL: http://168.223.36.3/acad/centers/ccdr.html	
Type: University Institute or Center	
Mission: The mission of the FAMU Center for Plasma Science and Technology (CePaST) is to produce new science and new technology from world class theoretical, experimental, and computational plasma physics and from photonics so as to increase national security, support the development of alternative sources of energy and to help provide new advanced materials all in a manner which enlarges the nation's scientific workforce. This will be achieved through a broad spectrum of research activities in physics and chemistry including research on remote sensing; fusion; carbon based nanoscience; advanced algorithms; and fundamental atomic and molecular quantummechanical phenomena.	

Commercialization

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Florida ExpertNet provides a one-stop shop for identifying university-based technology licensing or partnering commercialization opportunities. The ability to search across all available information, simultaneously, provides quick and efficient access to technology information and associated patents.

Each record contains core intellectual property information, and if available, information related to associated patents. Where available, patent status is indicated, and a link to either the technology or the patent record is provided.

Currently, across universities, there is no standard data entry procedure for licensing opportunities. Due to this fact, records from various universities may contain differing data fields.

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In the Spotlight

Super Ensemble Weather Forecasting Model

Weather Predict uses a forecasting model invented by FSU meteorologist T.N. Krishnamurti. [More](#)



A healthier, tastier peanut

UF has developed a peanut that is richer in heart-healthy oleic fatty acids than olive oil. This variety, called SunOleic 97R, also yields more. . . [More](#)



Solar-powered golf cart takes advantage of Florida sunshine

Technology developed at FAU to supplement power for electric vehicles captures five times as much energy from sunlight as before. A professor and. . . [More](#)

Intelligent Networked Sensors

UNF licensing an application which allows the capture and transmission of information directly from the field to an Internet GIS database. [More](#)



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Technology Title	University	Subject Heading
Apparatus and Method for the Electrolysis of Water Employing a Sulfonated Solid Polymer Electrolyte	UCF	Environmentally Responsible Technology
Bulk Semiconductor Lasers at Submillimeter/Far Infrared Wavelengths Using a Regular Permanent Magnet	UCF	Lasers and Optical Components
Computerized Model for Drug and Protein Design	FSU	Arts and Sciences
Enhanced Chemical Vapor Deposition of Diamond and Related Materials	UF	Engineering/Physical Sciences

Technology Information

Technology Title: Apparatus and Method for the Electrolysis of Water Employing a Sulfonated Solid Polymer Electrolyte

Broad Subject Heading: Environmentally Responsible Technology

Subject Sub-heading: Hydrogen Production

Technology Inventors: Clovis A. Linkous

University: University of Central Florida

Tech Transfer URL: <http://www.research.ucf.edu/>

Brochure: <http://tt.research.ucf.edu/Patent%20PDF%27s/US05271813B1.pdf>

Associated Patents

Patent Name: *Apparatus and method for the electrolysis of water employing a sulfonated solid polymer electrolyte*

Patent Abstract: An electrolyzer is provided for electrolyzing water into its constituent elements, namely oxygen and hydrogen gas. The electrolyzer includes a vessel in which a sulfonated solid polymer electrolyte is situated. The sulfonated solid polymer electrolyte is selected from a group including sulfonated polyetheretherketone (SPEEK), sulfonated polyethersulfone (SPES), sulfonated polybenzimidazole (SPBI), sulfonated polyphenylquinoxaline (SPPQ) and sulfonated fluorinated polyimide (SFPI). The electrolyzer also includes anode and cathode electrodes situated on the electrolyte. A direct current (DC) power supply is coupled to said anode and cathode electrodes to drive the reaction. A heater heats the electrolyte and a water supply is connected to one of said cathode and anode electrodes. The resultant oxygen and hydrogen are collected at the respective electrodes. The solid polymer electrolyte desirably operates with relatively high ionic conductivity at high temperatures without loss of structural integrity. In this manner, a high rate of gas output is achieved with substantially lower drive voltage and **energy** consumption.

Patent Type: U.S.

Patent Status: Issued

Patent Number: 5,271,813

Issue Date: December 21, 1993

Patent Record: [View full record at the United States Patent and Trademark Office](#)

Contact E-mail: amarder@mail.ucf.edu

Patent Inventors: Clovis A. Linkous

Speakers Bureau

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Quick Stats

University	Presentations
Florida A&M University	1
Florida State University	16
University of Central Florida	6
University of Florida	11
University of South Florida	7
University of West Florida	4

In the Spotlight

**Elizabeth Goldsmith,
Professor and Fulbright
Scholar**

In 2006 she was a Fulbright Scholar, lecturing and researching at the University of the West Indies in Trinidad and Tobago through the U.S. Dept. of. . . [More](#)



Dr. Clovis Linkous

Dr. Linkous has lectured widely on aspects of hydrogen energy, particularly photocatalysis and associated oxidation processes. [More](#)



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- [Animal Science](#)

Press Releases

- [Colleen Boggs Of Homestead Named "Woman Of The Year In Agriculture" **NEW!**](#)
- [Move Over, Big Apple](#)
- [CEO Glick And Commissioner Bronson To Host Final Access to Innovation, Collaboration, and Solutions](#)



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Search Date: 11/16/2007 12:24 PM
Search Criteria: agriculture
Total Number of Records Found: 2731

Category	Result Count	Action
Experts	531	View Full Result Set
Funded Projects	2133	View Full Result Set
Centers/Institutes	14	View Full Result Set
Licensing Opportunities	53	View Full Result Set
Speakers	0	View Full Result Set

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