



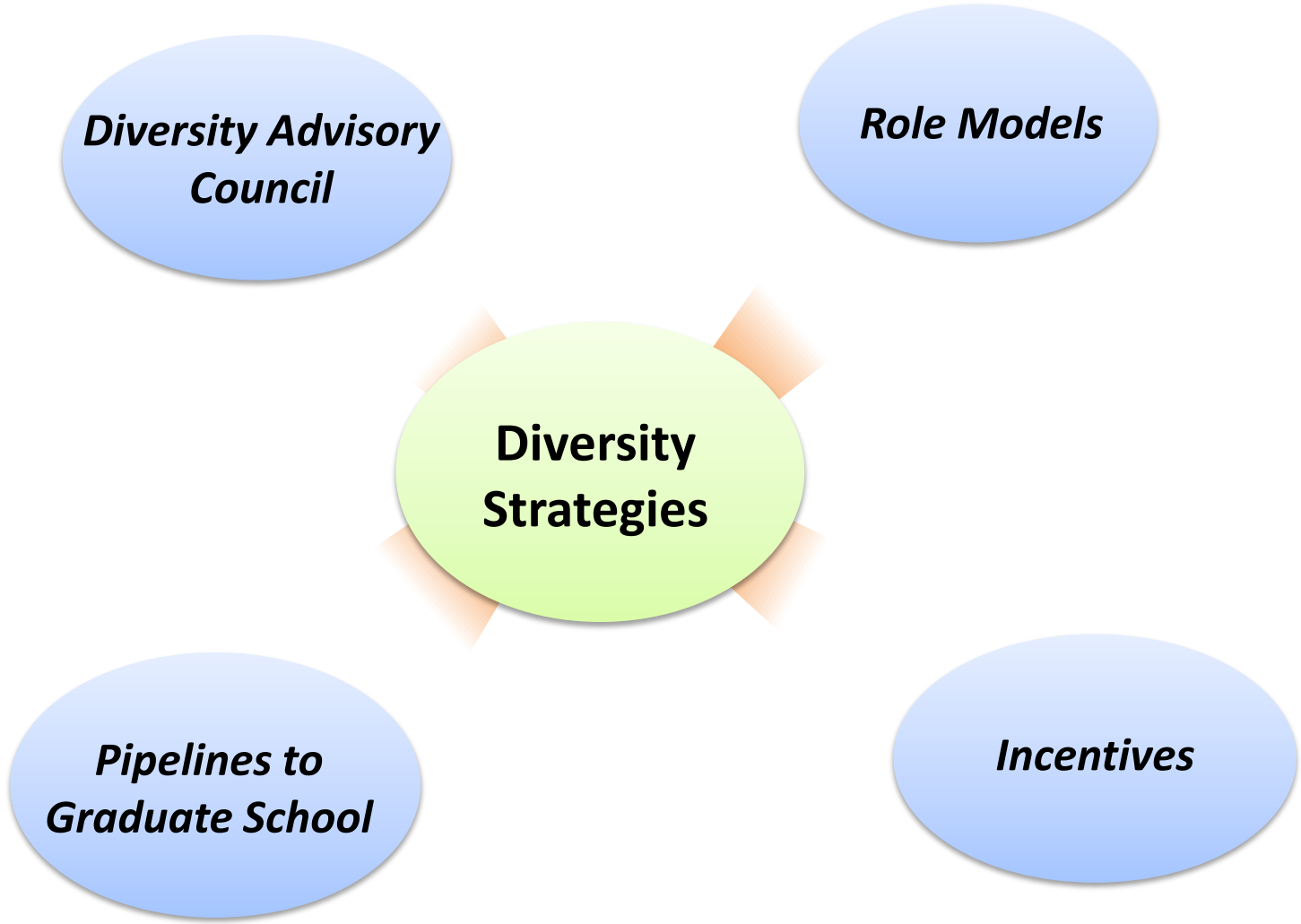
Diversity

Year 3 Symposium

Pedro Derosa

Increase the number of URM and women in the Alliance.

Diversity Strategies



Diversity Advisory Council

Role Models

Diversity Strategies

Pipelines to Graduate School

Incentives

Updates in the Strategic Plan

Diversity Strategies	Milestones Y2-Y3
Establish a Diversity Advisory Council	Annual DAC meetings.
Provide financial incentives to women	Reach 30% women and 15% URM students within the Alliance by Y3.
Milestones kept, undergraduate students included in the count	
Supplement Startup Packages	Reach 30% women and 15% URM students within the Alliance by Y3.
More stress on Community Colleges, articulation agreement	At least five students recruited through the pipelines described in the proposal by end of Y2.

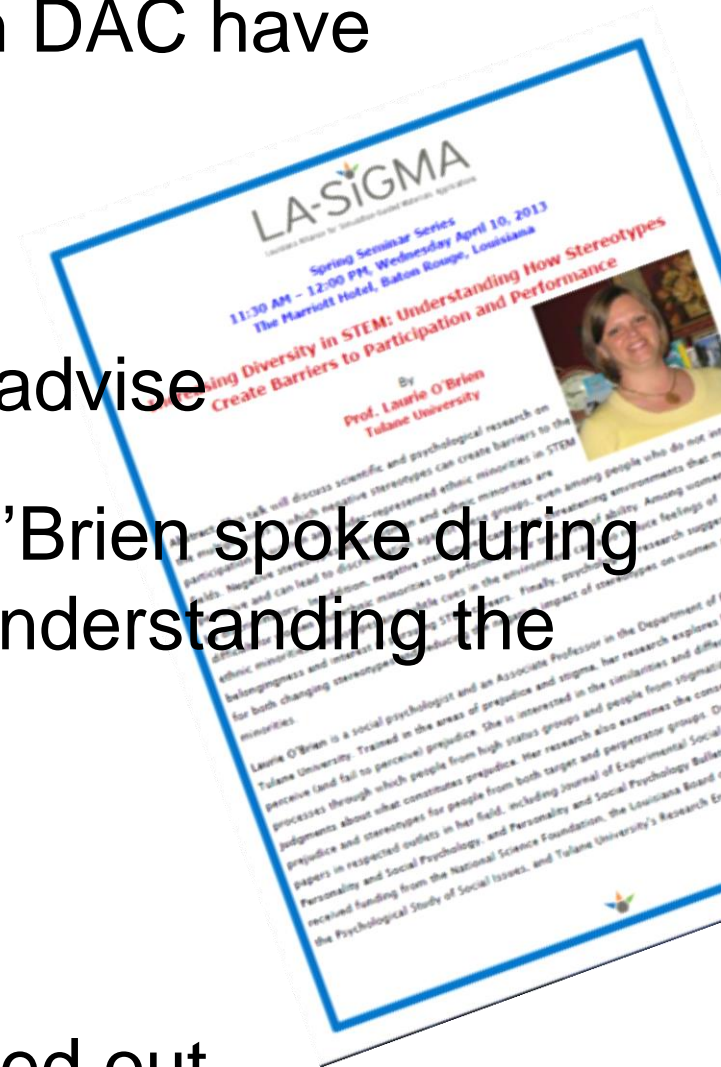
Diversity Advisory Council



- ❑ During year 3, interactions with DAC have significantly increased,
 - Annual meetings
 - 2 teleconferences
 - Numerous e-mail requesting advise

- ❑ Recommended by DAC, Prof O'Brien spoke during the April technical meeting on understanding the effect of stereotypes

- ❑ Two members were replaced,
 - Dr. Warner resigned
 - Dr. Moreno, now co-PI, stepped out



Diversity Advisory Council



William Lester

Department of Chemistry

University of California, Berkeley



DiOnetta Jones

Associate Dean and Director,
Office of Minority Education,
Office of the Dean for
Undergraduate Education

Massachusetts Institute of Technology



Sheila Edwards Lange

Vice President for Minority Affairs
and Vice Provost for Diversity
University of Washington



Zakiya Wilson

Executive Director of Research,
Education, and Mentoring Programs
Office of Strategic Initiatives
Louisiana State University



Betsy Willis

Director, Advising and Student Records
Director, Gender Parity Initiative
Bobby B. Lyle School of Engineering

Southern Methodist University



Jenna Carpenter

Associate Dean for Admin. &
Strategic Initiatives
Wayne and Juanita Spinks Prof.
of Mathematics and Statistics

Louisiana Tech University



Stephanie Adams

Associate Dean for
Undergraduate Studies
School of Engineering
Virginia Tech University



Janet Ruscher

Associate Dean for
Graduate Programs
School of Science and
Engineering
Tulane University

LA-SiGMA statistics:



70
Faculty



8
Post-Doc



65
Graduate



62
Undergraduate

Year 3		
	Female	URM
Faculty	17%	11%
Post docs	25%	13%
Total Students	32%	31%
Graduates	24%	27%
Undergraduates	41%	44%
REU	37%	37%
RET	44%	28%

Strategies



Graduate Students - Assistantship Supplements

Three graduate students have been awarded supplemental research assistantships: two female and an URM male.

Faculty - Supplements to Startup Packages

Contributing to the startup package of 2 Female Faculty (one an URM)

Strategies



pipelines

Targeting recruiting efforts in all state bridge programs:

4+1 Grambling/LA Tech

2+2 LSU/BRCC

3+2 Xavier/Tulane/UNO/SUBR,

2+2 Southern/BRCC

6 students recruited:

- 1 LA-SiGMA Xavier student transfers to Tulane,
- 1 BRCC REU student transferred to LSU, 2012
- 1 BRCC REU student transferred to SUBR 2012
- 2 BRCC REU students will transfer to LSU. 2013
- 1 REU student will transfer from SUS to Grambling maybe 2, 2013

Role Models

LSU's Center for Computation & Technology (CCT) and Innovation through Institutional Integration (I3) at the LSU Office of Strategic Initiatives

invite all summer research programs to attend

Minorities in STEM Panel

Moderated by: Joel Tohline, LSU CCT, Director

Tuesday, July 30, 2 p.m. - 4 p.m.

130 Nicholson Hall

Guest speakers

- **John Harkless**
Associate Professor of Chemistry
Howard University, DC
- **Janet B. Ruscher**
Professor of Psychology and the Associate Dean for Graduate Programs in Science and Engineering
Tulane
- **Zakiya Wilson**
Assistant Director of Graduate Studies in Chemistry and Executive Assistant of Strategic Initiatives
Louisiana State University

On the agenda

- Why it is important to have a diverse pool of people in research groups
- How to recruit minorities and women to the sciences and how to mentor & retain them
- How to avoid unintentional and implicit biases

Refreshments at 3:30 p.m.

Guest Speakers



John Harkless
Associate Professor of Chemistry
Howard University, DC

He obtained his B.S. from Morehouse College, and his Ph.D. at the University of California at Berkeley. His research interests are Quantum Monte Carlo wavefunction development, Electronic structure of metallic systems, and Electronic excitations.



Janet B. Ruscher
Professor of Psychology and the Associate Dean for Graduate Programs in Science and Engineering
Tulane

She joined the Tulane faculty in 1991 after earning the Ph.D. in experimental social psychology from the University of Massachusetts at Amherst. Prior to assuming her current administrative position, she served for 9 years as Department Chair. Her primary research lies at the interface of social cognition, prejudice, and language. These topics include subtle (as opposed to blatant) prejudiced language, cross-race performance feedback, and the persistence of stereotypes in conversation.



Zakiya Wilson
Assistant Director of Graduate Studies in Chemistry and Executive Assistant of Strategic Initiatives
Louisiana State University

She received her B.S., cum laude, from Jackson State University and her Ph.D. in Inorganic Chemistry, from LSU. Within the Office of Strategic Initiatives, she works collaboratively with the Vice Chancellor and program managers to increase and improve the educational experiences of students.

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COES Graduate Seminars

Are you a graduate student in engineering or science? Join us twice a month for meetings that provide professional development training on topics such as leadership, communication, networking and more!

All meetings will be from 4:00-5:00 p.m. in the Biomedical Engineering Building, Room 157.

Schedule for the Spring Quarter 2013

Thursday, March 7, 2013- [Advice from the Experts: Leadership and Success](#)

Thursday, March 21, 2013- [Using Social Media to Promote Your Career](#)

Thursday, April 4, 2013- [Speaking with Confidence: How to Speak so that Others Will Really Listen](#)

Thursday, April 18, 2013- [Teaching Experience: Why All Graduate Students Need It and Innovative Ways to Get It](#)

Thursday, May 2, 2013- [Using A Three-Point Communication Strategy to Think on Your Feet](#)

Schedule for the Winter Quarter 2012-13

Tuesday, December 18, 2012- [Literature Review and Handout](#)

Tuesday, January 15, 2013- [Non-Verbal Communication](#)

Tuesday, January 29, 2013- [How to Give an Effective Presentation](#)

Tuesday, February 5, 2013- [Tips on Effective Time Management](#)

Tuesday, February 19, 2013- [Crash Course on Networking](#)

Schedule for the Fall Quarter 2012-13

[Leadership Styles](#)
[Networking 101](#)
[How to Write an Effective](#)
[Curriculum Vita](#)
[How to Write a Research Plan](#)
[Write an Effective Teaching](#)
[Statement](#)
[Tips on Effective Job Interviews](#)
[Write an Effective Cover Letter](#)
[How to Communicate Effectively](#)
[How to Write-Submit a](#)
[Conference Paper](#)
[Women Don't Ask](#)
[How to Submit-Present a Poster](#)
[Negotiation Basics](#)
[Stereotype Threat](#)
[Preparing for Your First Post-](#)
[Graduate Position](#)

Diversity Milestones



Milestones	Y1	Y2	Y3	Y4	Y5	
Diversity Advisory Council.	X	X	X	X	X	<i>Ahead</i>
Provide financial incentives to GS.			X	X	X	<i>On Track</i>
Supplement Startup Packages.			X	X	X	<i>On Track</i>
Create/expand pipelines to graduate school.		X	X	X	X	<i>On Track</i>



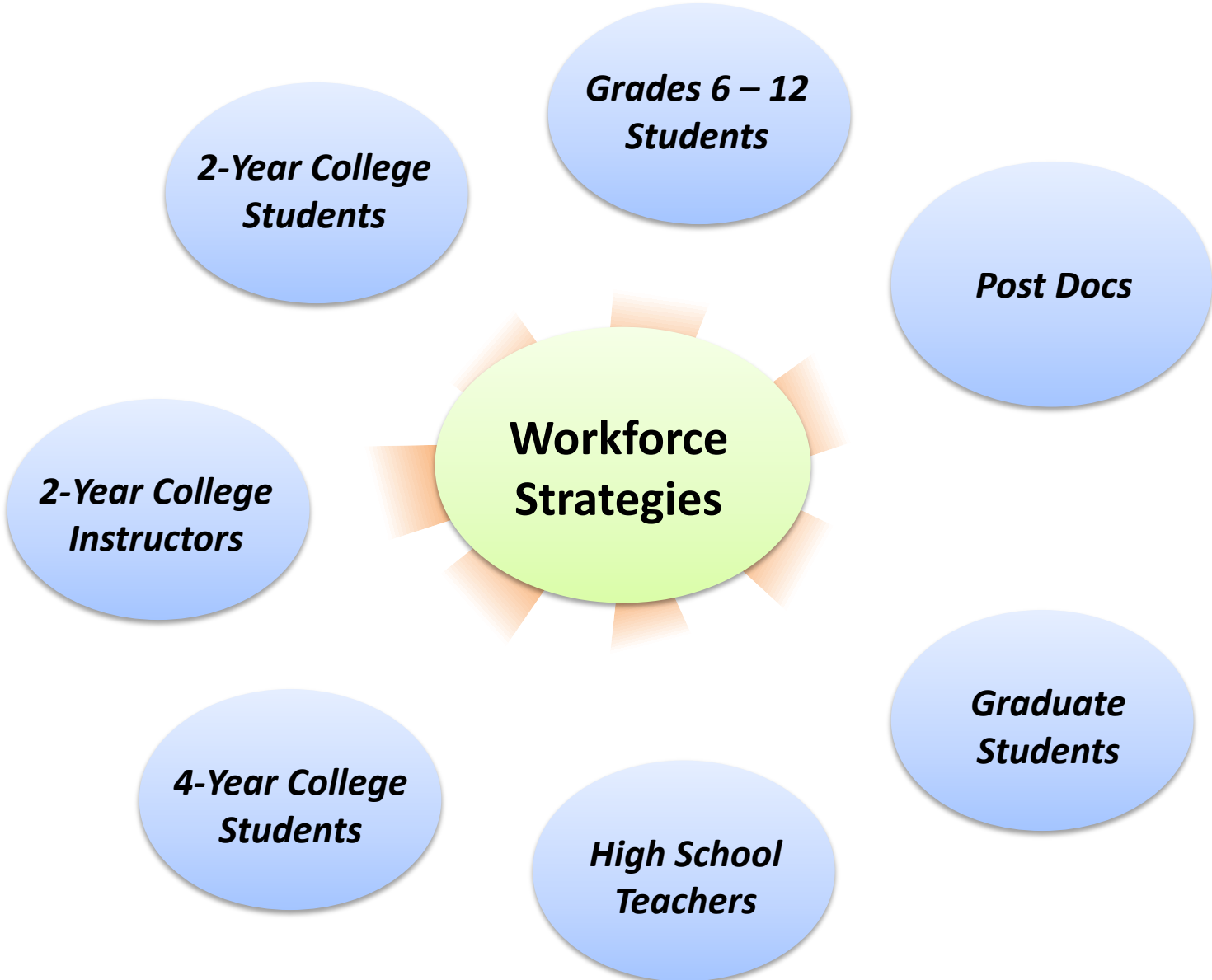
Workforce Development

Year 3 Symposium

Pedro Derosa

LA-SiGMA will address all levels of the educational ladder, contributing to a well-trained and diverse professional workforce.

Workforce Development Strategies



2-Year College Students

Grades 6 – 12 Students

Post Docs

2-Year College Instructors

Workforce Strategies

Graduate Students

4-Year College Students

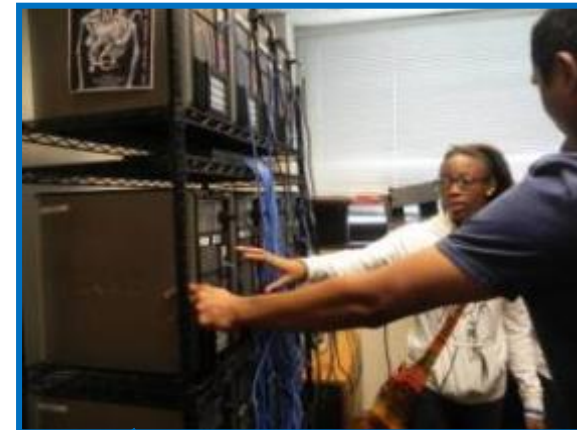
High School Teachers

Workforce Development	Milestones Y2-Y3
Open houses for middle and high school students and summer research workshops	Increased attendees in Y2-Y3
RET programs for teachers	Strategic plan changed from 20 RET per year
Multiple programs for two-year college students	expansion of short courses in Y2 and beyond; five two-year college participants each year in Beowulf Boot Camp; expansion of 2+2 programs to other LA-SiGMA institutions by Y3
REU programs on computational and experimental materials science	30 REU participants (as budgeted) each year; 50% of participants will pursue higher education
Distance Ed courses	Strategic changed to courses attended by at least 3 campuses by Y3 and 4 by Y4
Training programs for graduate students and postdocs	Participation in effective teaching workshops; five internships and extended visits each year

Grades 6-12



LA-SiGMA participated in LA Tech/Grambling Eng. & Science Day and in Sci-Port's High School Engineering Olympics.



LA-SiGMA hosted Open Houses at Tulane and it is working with a Title I school in New Orleans mentoring the students in the Chemistry AP program.



Ten high school students participate in summer programs in parallel with UNO & LSU REU students.

Grades 6-12



Nanodays in Baton Rouge,
March 30 & April 6, 2013
Over 500 visitors

Balloon Nanotube at the
2013 NanoDays hosted at
the Louisiana Art & Science
Museum, Baton Rouge



LA-SiGMA showcased nano-
science demos in LSU Super
Science Saturday. Over 1,600
people attended.

Residential STEM Student Experience Grades 6-12



LA-SiGMA at LA Tech hosted 10 high school students for a week-long residential STEM Student Experience July 8-12, 2013.

These students were brought to campus by the RET teachers.



“The program helped me to get a college experience and learn new things I didn’t know... When I grow up, I want to go to college and major in computer science.”

- Austin Hawkins,
high school student



PyFUN Python Programming Camp:



June 17-21, 2013

34 Middle school age students in
the Baton Rouge area
-held at LSU



High School Teachers



RET teacher Burkman and his students present at 2012 Oklahoma supercomputing conference



LA-SiGMA RET participants presented at the 2012 Louisiana Science Teachers' Association and Louisiana Math Teachers' Association joint conference

- LSU, SU, and Tulane RET teachers participated in the GPU team
- 2 RET Louisiana School for the Math Science and the Arts
- Leveraged LSU's LaMSTI teacher program
- UNO AMRI
- At TECH the LA-SiGMA and the Shell Collaborative co-sponsored the RET



RET Teachers at the Ruston program

Two-year college students & instructors:



Short course:

- LA Tech held a one day course “Modern Practices in Chemical Education” on October 26, 2012:

5 teachers from LA Delta (Monroe), BPCCC (Bossier City), and SouthArk (El Dorado, AR

REU/RET participation:

- Two CC students participating in 2013 REU (LSU & LA Tech).
- Four CC faculty participating in the RET 2013 program.

Modules for STEM CC classes:

- BRCC instructors working with LSU LA-SiGMA faculty to develop course modules for STEM courses and a new curriculum for an HPC Associate degree.

Two-year college students & instructors:

LCTCS conference:

LA-SiGMA representatives presented at Louisiana Community & Technical College System Annual Conference on March 14, 2013.



**Louisiana Community &
Technical College System**

Changing Lives, Creating Futures



Undergraduates



30 LA-SiGMA REU students statewide.



Graduate Students



5 Graduate level courses offered:

1 course Fall 2012, 4 courses Spring 2013,

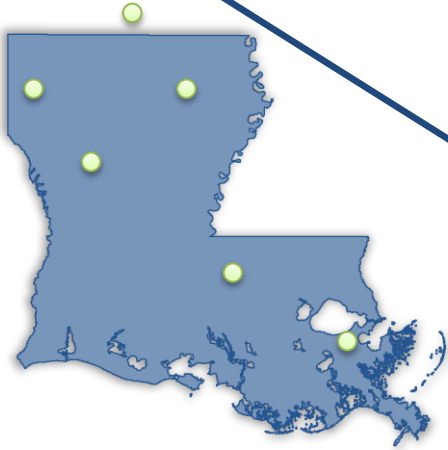
(3 of the courses in partnership with German & Swiss Universities leveraging PIRE award, 1 of the courses included students at Bangalore, India)



Partnerships



Two MoU's in progress with Argentina



- Baton Rouge Community College
- Bossier Parish Community College
- Louisiana Delta Community College
- Louisiana School for Math, Science & the Arts
- South Arkansas Community College

- Brookhaven National Lab
- Eidgenössische Technische Hochschule Zürich, Switzerland
- Göttingen University, Germany
- Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India
- Max Planck Institute for Colloids and Interfaces, Potsdam, Germany
- National Institute for Materials Science, Tsukuba, Japan
- Pacific Northwest National Lab
- Sandia National Lab
- Shodor Education Foundation
- S.N. Bose National Centre for Basic Sciences, Kolkata, India
- Technischen Universität Dortmund, Germany
- Texas A&M University
- University of Hertfordshire, Great Britain
- Universität Würzburg, Germany
- Karlsruhe Institute, Germany
- Neel Institut, Grenoble, France
- Argonne Nat. Lab, Illinois
- SciDAC Institutes

Graduate Students and Postdocs

LA-SIGMA Effective Teaching Workshop

based on Michigan State's
FIRST program

(Faculty Institute for Reforming
Science Teaching)

Developed and taught by
Cynthia Sisson and Stephanie
Aamodt (LSU-Shreveport).



Graduate Students and Postdocs



Workshops on Computational Thinking with a Parallel Perspective
by Bob Panoff and the Shodor team:
July 14-20, 2013 (LSU)



NATIONAL COMPUTATIONAL SCIENCE INSTITUTE

Introduction to Computational Thinking (ICT)

Shodor > NCSI > 2011 Workshops > Introduction to Computational Thinking (ICT)

Registration Closed

Introduction to Computational Thinking (ICT)

First Look — 2011
The purpose of these workshops is to expose participants to and inspire them with new techniques, teaching materials, and applications to use computational models in the undergraduate curriculum. By bringing faculty and teachers from different disciplines together so that they can learn how to incorporate computational models into their classrooms and research projects, it will advance the use of computing in undergraduate science education. We desire to have participants from a broad range of disciplines, including computer science, mathematics, and the physical and life sciences. Each workshop below may be a "variation" on the theme of Computational Thinking.

Institution Louisiana State University
Baton Rouge, LA

Dates Jul 31 - Aug 6

Local Coordinators Leigh Townsend and Kathy Traxler

Lead Instructors Jennifer Houchins, Erin McNelis, Clyde Metz, Bob Panoff and David Toth

Notify By Jun 15

Cancel By Jul 8

Details **ICT: Computational Thinking from a Parallel Perspective:**
Focus on parallel thinking and resources to prepare graduate students, college faculty, and high school teachers for modeling and simulation for new parallel computing environments.

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Graduate Students and Postdocs



Data Semantics Workshop, June 7-8, 2013

(35 registrants, 8 speakers,
LA Tech, LSU, SUBR, Tulane, Board of Regents)



William Shelton
PNNL

Bert de Jong
PNNL

Nico Adams
CSRO

Peter Murray-Rust
Cambridge

Dave Cowley
PNNL

Marcus Hanwell
Kitware, Inc.

Christopher Jordan
TAC

Neil Ostlund
Hypercube, Inc.

Graduate Students and Postdocs



*LONI HPC Parallel Programming
Workshop,
June 10-12, 2013
2nd High Performance Computing User
Symposium,
June 12-13, 2013*

**Virtual School of Computational Science and Engineering (VSCSE)
Workshops on GPU Algorithms and Programming Tools:
1 workshops in summer 2013 (15 participants)**

Student/postdoc retreats: UNO July 12, 2013: 33 participants

Annual Student Retreat at University of New Orleans July 12th, 2013

AGENDA

- 9:00-9:30 am Registration & Continental Breakfast
 - 9:30-9:45 am Setup presentations
 - 9:45-10:45 am Invited Speaker
 - 10:45-11:00 am Break
 - 11:00-12:00 pm Q&A with Invited Speaker
 - 12:00-12:45 pm Lunch
 - 12:45-1:45 pm Students's elevator Pitch
 - 1:45-2:00 pm Discussion on presentations
 - 2:00-2:15 pm Break
 - **2:15-3:15 pm Graduate Student Led Tour
 - ***3:30-4:15 pm Keys to Surviving Graduate School
 - 4:15-4:30 pm Break
 - 4:30-5:00 pm Discussion and plans for next meeting
- For many of us this is the first time visiting the UNO campus, it is a good opportunity to have a Post-doctoral fellow from UNO talk to us about their own graduate school.
- Invited speaker will focus on the impact of computers in science, it is also a good opportunity to have a Post-doctoral fellow from UNO talk to us about their own graduate school.



Graduate Students and Postdocs



Postdoc Mentoring Links

<http://www.physics.ohio-state.edu/~wilkins/>

<http://www.physics.ohio-state.edu/~wilkins/onepage/>

Faculty Mentoring Links

The Awesomest 7-Year Postdoc or: How I Learned to Stop Worrying and Love the Tenure-Track Faculty Life by Radhika Nagpal

General Mentoring on Diversity

The <http://www.understandingprejudice.org/> website is maintained by the Society for Personality and Social Psychology, which is the largest international organization of behavioral scientists in the field. The demonstrations are informative, are based on empirical work, and the site was funded by NSF.

Why diversity matters to all of us. We recommend a video of Scott Page from the University of Michigan and author of the book "The Difference": <http://www.youtube.com/watch?v=it9UeknKwZw>. In this 90-min video, he explains why diversity is the key to creativity and innovation (both of which are important in research). He gets the message across that

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Workforce Development Milestones



Milestones	Y1	Y2	Y3	Y4	Y5	
Open houses for middle and high school students and summer research workshops	X	X	X	X	X	<i>Ahead</i>
18 RET participants each year	X	X	X	X	X	<i>On track</i>
Multiple programs for two-year college students	X	X	X	X	X	<i>On Track</i>
75 REU/SURE participants each year	X	X	X	X	X	<i>Ahead</i>
Graduate Courses via Synchronous Video	X	X	X	X	X	<i>On Track</i>
Training programs for graduate students and postdocs	X	X	X	X	X	<i>On Track</i>