Report on Professional Activities 2010 - 2015

Natalia A. Sidorovskaia, Department Head
Summary

The Department of Physics was established in 1935. Our mission is “the advancement of Physics through excellence in research and the extension of scientific heritage through education.” Over the years the department has created and nurtured a unique blend of applied and fundamental research to improve our understanding of the world around us and to respond to the needs of our community. Our research efforts are primarily in the areas of acoustics, computational physics, cosmology, Earth and planetary sciences, environmental physics, ion beam physics, geophysics, and materials science (physics.louisiana.edu). The department consists of six full-time research-oriented faculty, one instructor, four emeritus professors, and about 30 undergraduate and graduate students. We offer both Bachelor’s of Science (BS) and Master’s of Science (MS) degrees in Physics. The department has partnered with the School of Geosciences to build an interdisciplinary doctoral program which will focus on research in energy, the environment, and the physics of the earth.

This booklet summarizes the professional accomplishments of the research-active physics faculty from 2010 to 2015. Since 2010, the physics faculty have served as Principle or Co-Principle Investigators on 43 research grants totaling $9,494,270 which is on average $226,054 per year per faculty member. Since 2010, we have published 90 peer-reviewed journal articles (2.14 per faculty per year), eight book chapters, and 20 conference proceedings papers. The expertise of the physics faculty is recognized by invitations to deliver 24 plenary and invited international conference talks and to serve as referees of 35 scientific journals, including Science and Nature. The faculty also authored and co-authored 20 conference presentations and organized 8 special sessions and meetings. Our faculty pride themselves in educating future scientists and teachers: we served as chairs and co-chairs on 20 MS Theses and Doctoral dissertations committees.
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2. REFERRED JOURNAL PAPERS (ACCEPTED)

None.

3. BOOK CHAPTERS


3. **J.R. Meriwether et al.** “Geomorphic and Ecological Effects of Hurricanes Katrina and Rita on Coastal Louisiana Marsh Communities” One of several co-authors, USGS Report, 2010, 185 pages.


5. B Fischer, **G Morra**, Towards Modeling Resonating Bubbly Flow in Magmatic Conduit, 2015 GSA Southeastern Section Meeting 47 (1), ISSN 0016-7592

6. **Gabriele Morra**, David A Yuen, Joao F Justo, Renata Wentzcovich., Upwelling through the iron spin transition in the lower mantle and a volatile rich upper mantle transition zone, presented at the Central Asian Tectonics And Western Pacific Geodynamics International Conference in Wuhan, Hubei, China, June 6, 2015
   [http](http://logs.whigg.ac.cn/catwpg/lib/exe/fetch.php?media=meeting_schedule.pdf)

7. **Gabriele Morra**, Fast Numerical Methods for Modeling Gas-Magma Interaction, department seminar at the Department of Earth Sciences, University of Minnesota, Minneapolis, USA.


18. **Rui Zhang**, Bo Zhang, 2015, Seismic reflectivity attributes, SEG 835nd Annual meeting Houston.


5. PLENARY AND KEYNOTE PRESENTATIONS

James B. Dent

“New particle searches confronting the first LHC Run-2 data”, held at the IPMU in Kashiwanoha Japan in September 2015

Gabriele Morra


"Subduction, megathrusts and underwater landslides: What the 2011 Japanese tsunami has taught us about tsunami hazard." - South Western Louisiana Geophysical Society, 2014
6. INVITED CONFERENCE / WORKSHOP TALKS

James B. Dent

Fermilab meeting on Dark Matter at a Future 100TeV Collider, December 2015 at Fermilab in Batavia, Illinois

Coherent Neutrino Scattering Workshop held at Texas A&M University in November 2015

Mitchell Institute’s Dark Matter Workshop held at Texas A&M University in May of 2015

Aspects of Inflation Workshop, Texas A&M University, April 2011

William A. Hollerman


Inexpensive Student-Based Payload Projects, NASA Academy of Aerospace Quality (AAQ) Mini-Workshop, Port Canaveral, Florida, March 27, 2012.

Overview of the Student-Related Payload Projects at UL Lafayette, Next Generation Suborbital Researchers Conference, University of Central Florida, Orlando, FL, March 2, 2011.


John J. Matese

“Searching the Catalogue of Cometary Orbits for Evidence of an Impulsive Component of Oort Cloud Flux”. Lille Observatory Workshop, “Dynamics and Formation of the Oort Cloud”; 27-30 September (2011); Lille, France

Gabriele Morra

University of Lausanne - special workshop for the 50 years of Yuri Podlatchikov, 2014

Organization of the Tectonic Plates in the past 200 Myrs. American Geophysical Union Fall Meeting, San Francisco, December 2013

Applications of the Multipole Boundary Element Method in Geodynamics, Mathematical Methods in Geosciences, Padua, June 2013

Slabs and plumes crossing a broad density/viscosity discontinuity in the mid lower mantle, American Geophysical Union Fall Meeting, San Francisco, December 2010
Andi Petculescu


Natalia Sidorovskaia


7. COLLOQUIA AND SEMINAR TALKS

James B. Dent

Invited seminar speaker for the Fermilab VHEPP meeting, October 2015 (talk done by phone)

Invited seminar speaker at LSU in April 2015

Seminar speaker at the University of Louisiana at Lafayette, November 2015

Invited Seminar on Inflation given at the University of New Orleans, April 2014

Invited Seminar on the current status of dark matter given at Louisiana Tech University, November 2014

Public talk at the SMART Festival, Lafayette, LA, October 2014

Invited Seminar, Arizona State University, November 2013

Public Lecture, SMART Festival, Lafayette, LA, October 2013

Invited Talk, LSU-S, October 2013

Invited Seminar, Vanderbilt University, April 2013

Invited Colloquium, University of Louisiana-Lafayette, Feb 2012

Invited Seminar, University of New Mexico, March 2011

Invited Seminar, University of Melbourne, March 2011

Invited Seminar, Texas A&M University, November 2010

William A. Hollerman


Triboluminescent Materials: Uses in Smart Sensors and Technology, Department of Physics, Auburn University, Auburn, AL, November 20, 2015.


Effects of Ionizing Radiation on Materials, Lecture to students in a 600 Level Course in Materials Science/Applied Physics, Department of Physics, Alabama A&M University, February 12, 2013.

Beyond Glow Ammo: Behind the Scenes at a Student-Inspired Research and Development Program:
- Department of Chemistry and Physics, Southeastern Louisiana University, Hammond, LA, March 23, 2012.
- Department of Physics, University of New Orleans, New Orleans, LA, February 22, 2012.
- Department of Physics, University of Louisiana at Lafayette, Lafayette LA, February 11, 2011.

Recent Advances in Triboluminescence Research:
- Center for Integrated Nanotechnologies (CINT), Albuquerque, NM, September 3, 2010.


**Gabriele Morra**

Invited department seminar at the University of Minnesota in Minneapolis, 2015

Gabriele Morra, David A Yuen, Sang Mook Lee, Computational Methods for Volcanology: application to Central Asian Volcanism, 20 minute seminar at the School of Geosciences, University of Wuhan, Hubei, China, June 10, 2015

"Fractal Plate Tectonics and Global Plate Reorganizations" - University of Texas at Dallas - Geosciences Dep - Department Seminar, 2014

"Subduction, megathrusts and underwater landslides: what the 2011 Japanese tsunami has taught us about tsunami hazards" - University of Texas at Dallas - Geosciences Dep - Lunch Seminar, 2014

"Plate tectonics, megaquakes and underwater landslides: what the 2011 Japanese earthquake taught us about tsunami hazard" - University of New Orleans - Physics Dep. - Department Seminar, 2014

Seminar talk at the Department of Physics, UL Lafayette, September 11, 2013

Seminar talk at the School of Earth and Environmental Sciences, Seoul National University, November, 2010
Andi Petculescu

Molecular acoustics: theory and applications, Universite de Montreal, Canada, June 2013 (invited).

Molecular acoustics: modeling sound propagation in polyatomic gases, University of New Orleans, February 2012 (invited).

Gabriela Petculescu

Presentation: “Ultrasonic probe for sensitization,” to ONR and NSWC-CD NDE branch, Carderock, MD, July 16th, 2015.

Seminar: “Sensitization of Aluminum Alloys - Ultrasound as a Possible Characterization Tool,“ ONR Summer Faculty Program – Seminar Series, NSWC - CD, MD and sister NSWC centers (by broadcast), Carderock, MD, July 15th, 2015.

“Elastic Interactions in Ferromagnetic Fe-based Alloys,” ONR Summer Faculty Program – Seminar Series, NSWC at Carderock, MD and also broadcasted, July 8th, 2014;


"Resonant Ultrasound Spectroscopy and its role in understanding magnetoelectricity in Fe-based alloys," George Mason University, Physics Department Seminar, Jan 2010.

Natalia Sidorovskaia

Seminar, Institute of Applied Physics (Russia), November 2012
Seminar, Nizhny Novgorod State University (Russia), November 2012
Seminar, Physics Department, UL Lafayette November 2011


“Modeling Short Term Dynamics of Marine Mammal Populations Near the BP Oil Spill Site (Gulf of Mexico),” Poster, LSU, April 2011

Rui Zhang

The University of Texas at Austin, 2015
8. CONTRIBUTED TALKS

James B. Dent

PHENO 2010 Madison, WI, May 2010

Gary A. Glass

“High energy heavy ion assisted wet etch of silicon”, Jack Manuel, Bibhudutta Rout, Gary A. Glass, 21st International Conference on the Application of Accelerators in Research and Industry (CAARI 2010), August 9-13, 2010, Forth Worth, TX.


“High energy heavy ion lithography”, Gary A. Glass, 3rd International Meeting on recent developments in the study of radiation effects in matter, 24-28 October, 2010, Gramado, Brazil.

William A. Hollerman


John J. Matese

“Searching the WISE Preliminary Catalog for Massive Planets in the Oort Cloud”. Joint Session of the European Planetary Science Congress / Division of Planetary Science – American Astronomical Society; 02-07 October (2011); Nantes, France

Andi Petculescu

Absorption and Dispersion in Venus' Lower and Middle Atmospheres, ASA Pittsburgh, June 2015.

A physical model for predicting the sound speed and attenuation coefficient in Titan’s atmosphere based on Cassini-Huygens data, ICA-ASA 2013, Montreal, Canada, June 2013.


The characteristics of thunder on Titan, 159th Meeting of the Acoustical Society of America, 19–23 April 2010 (Baltimore, MD).

Extraterrestrial music, 1st EAA-SAS Congress on Sound and Vibration (EuroRegio 2010), 15–18 September 2010 (Ljubljana, Slovenia)

Constraining the acoustic energy radiated from collisions of polypropylene balls, 159th Meeting of the Acoustical Society of America, 19-23 April 2010 (Baltimore, MD).

**Gabriela Petcucescu**

“Response of ultrasound to aluminum alloys sensitization,” IEEE International Ultrasonics Symposium, Chicago, IL Sept. 4th, 2014

2 contributed talks given by collaborators on common projects at 59th MMM conference, Honolulu, HI, Nov. 2014


“Temperature dependence of magnetoelastic properties of Fe100-xSi_x (5<x<20),” 56th MMM Conference, Scottsdale AZ, October 2011.


**Natalia Sidorovskaia**

Classification of beaked whale and dolphin clicks measured by environmental acoustic recording system buoys in the northern Gulf of Mexico Meeting of the Acoustical Society of America, Jacksonville, FL, Nov. 02-06, 2015


**Natalia Sidorovskaia.** Baoling Ma, Azmy S. Ackleh, Christopher O. Tiemann, Juliette W. Ioup and George E. Ioup (2014). “Acoustic Studies of the Effects of Environmental Stresses on Marine Mammals in Large Ocean Basins,” presented as a poster (OS21C-1155) at the AGU meeting, 15-19 December 2014, San Fransisco, CA

Carl Richter, Lindsey Horton, Gary Acton, Natalia Sidorovskaia, Francisco Sierro, Chuang Xuan, Kenneth Verosub (2014). “Relative Geomagnetic Paleointensity, Environmental Magnetism, and Cyclicity of Contourites from the West Iberian Margin (IODP Site U1389),” presented as a poster (GP23B-3686) at the AGU meeting, 15-19 December 2014, San Fransisco, CA

**Natalia Sidorovskaia.** Azmy Ackleh, Baoling Ma, Christopher Tiemann, Juliette W Ioup, and George E Ioup, “Using an autonomous passive acoustic observational system to monitor the environmental impact of the Gulf of Mexico oil spill on deep-diving marine mammals,” AGU Fall meeting, December 3-7 2012.


Azmy S. Ackleh, Nabendu Pal, Natalia Sidorovskaia, “Modeling Short Term Dynamics of Marine Mammal Populations Near the BP Oil Spill Site (Gulf of Mexico),” NSF Sponsored Oil Spill Conference in New Orleans, Oct 31 – Nov 2, 2010
9. JOURNAL REFEREES

James B. Dent

Astroparticle Physics (2013)

William A. Hollerman

Journal of Luminescence (2009-Present)
IEEE Sensors Journal (2012-Present)
IEEE Transactions on Nuclear Science (1998-Present)

Gabriele Morra

- Geophysical Journal International (2 reviews)
- Physics of the Earth and Planetary Interiors
- Journal of Geodynamics

Geophysical Journal International
Journal of Geophysical Research
Physics of the Earth and Planetary Interiors
Earth and Planetary Science Letters
Acta Geotechnica
Geoscience Frontiers
Tectonophysics
Annuals of Geophysics
Science

Andi Petculescu

Journal of the Acoustical Society of America
Icarus
Planetary and Space Sciences
IEEE Sensors

Gabriela Petculescu

Elsevier, Physica B
IEEE Transactions on Magnetics
Journal of Applied Physics
Journal of Alloys and Compounds, Elsevier
Journal of the Acoustical Society of America
Wave Motion
Europhysics Letters
Journal of Materials Science
Nature
National Science Foundation

Natalia Sidorovskaia

Journal of Acoustical Society of America
Canadian Acoustics Journal
Physics Essays
AIP
McGraw-Hill, Addison Wesley
10. ORGANIZED SPECIAL SESSIONS AND CONFERENCES

James B. Dent

Organizing Committee for the Primordial Magnetism Workshop held at ASU, April 2011

Organizing Committee for the New Directions in Cosmology Workshop held at ASU, January 2012

William A. Hollerman

Meeting Organizer and Host, NASA Academy of Aerospace Quality (AAQ) Expert User Group, October 20, 2014.


Gabriele Morra

The geodynamics of plate tectonics, Session at the American Geophysical Union Fall Meeting, December 2012.

First international conference on geodynamics. Title of the conference “Slab Dynamics”. Jeju Island, South Korea. August 2011. Main organizer and Chief editor of the following AGU Book.

Natalia Sidorovskaia

Special Session of the Acoustical Society of America: “Acoustics and the Deepwater Horizon Oil Spill I”, November 2010, Cancun
11. GRADUATE STUDENTS

James B. Dent

Chair of the Committee, Master of Science in Physics, UL Lafayette

Chase Gaudet, December 2013
Alex Sylvester, December 2015

Gary A. Glass

Chair of the Committee, Master of Science in Physics, UL Lafayette

James Deaton, Summer 2010
Jack Manuel, Fall 2011
Dustin Phillips, Fall 2011
Henry Luyombya, Summer 2011
Boyko Perfanov, Fall 2011

William A. Hollerman

Chair of the Committee, Master of Science in Physics, UL Lafayette

Ross S. Fontenot, Spring 2010
Brandon T. Payne, Fall 2010
Mark Roberts, Spring 2011
Lika Kobakhidze, Fall 2012

Member of the Ph.D. Committee

Ross S. Fontenot, May 2013, Alabama A&M University
Noah Bergeron, February 2014, Louisiana Tech University

Andi Petculescu

Chair of the Committee, Master of Science in Physics, UL Lafayette

Joshua Riner, Spring 2011
Akinjide Akintunde, Spring 2014

Gabriela Petculescu

Chair of the Committee, Master of Science in Physics, UL Lafayette
Natalia Sidorovskaia

Chair of the Committee, Master of Science in Physics, UL Lafayette

Anca Niculescu, Spring 2010 (Non-Thesis option)
Fatemeh Karbalaei Saleh, Spring 2014
12. EXTERNAL FUNDING

James B. Dent

PFUND Grant, $8050, 2013
Co-PI with Dr. Hollerman on a $6000 LYRA award for undergraduate student John Miller, 2015

Garry Glass

Novel Delivery Modes for Small Molecule Inhibitors of Medulloblastoma, Children's Brain Tumor Foundation, 2008-2010, $150,000

MRI: Acquisition of Advanced Scanning Proton Microprobe, National Science Foundation, 2008-2010, $127,120

Installation of Magnetic Quadruple Focusing System at The University of Massachusetts Lowell
The University of Massachusetts – Lowell, 2011 $114,000

ARRA: MRI-R2: Development of Electrostatic High Energy Focused Ion Beam (HEFIB) Nanoprobe System, National Science Foundation, 2010-2013 $610,879

Installation of Magnetic Quadrupole Doublet Focusing System at Amethyst Research Corporation, Office of Naval Research, 2010-2011, $206,000

William A. Hollerman

Building a Robust Geiger Counter to Fly on the HASP Balloon, Louisiana Space Grant (LaSPACE) Consortium, $52,150, 2009-2011, Principal Investigator.

Developing Prototype Hybrid Luminescent Ammunition (HLA), U.S. Army Armament Research, Development and Engineering Center (ARDEC), Picatinny Arsenal, New Jersey, $630,000, 2009-2011, Principal Investigator.

Collecting High-Speed Camera Data From Microwave Induced Visible Electroluminesence, Links with Industry, Research Centers, and National Labs (LINK), Louisiana Board of Regents, $4,000, Principal Investigator.


Feasibility of EuD$_4$TEA-Based Sensors to Detect Space Radiation, Louisiana Space Grant (LaSPACE) Consortium, Additional Funds of $6,500 for Total of $35,200, 2014-2015, Principal Investigator.

Low Energy Nuclear Astrophysics Research For Student John Miller Using the 5SDH-2 Pelletron at the Louisiana Accelerator Center, Louisiana Space Grant (LASPACE) Undergraduate Research Assistantship (LURA), $6,000, 2015-2016, Principal Investigator.

**John Meriwether**


**Gabriele Morra**

Planet-scale reorganizations of the plate–mantle system, Australian Research Council Discovery Grant, AUD 300,000 ($262,747 USD), 2009-2012

A Fast Multipole Approach to Modeling Tsunami Waves, Board of Regents - pFund, $10,000 (PI), 2014-2015

Computational Development of the Fast Multipole - Boundary Element Method for Modeling Three Dimensional Geodynamic Problems, Board of Regents - RCS. $119,000 (PI), 2014-....

**Andi Petculescu**


Computational Fluid Dynamics Simulation of Thunder on Titan (Louisiana Space Consortium LURA Award #51968), $6,000, 2011-2012

Pilot Study: Modeling Thunder on Titan, as a Tool to Corrobore Titanian Lightning (Louisiana Space Consortium LURA Award #44305), $6,000, 2011-2012

Understanding Infrasonic Absorption in the Lower Thermosphere as a Step Toward Quantitative Infrasonic Aeronomy (BoR/NSF–EPSCOR: LEQSF (2013)-PFUND-339), $10,000, 2013


Infrasonic Sensing on Mars Based on Deployable Dome Structures: a Feasibility Study Louisiana Space Consortium GSRA Award #101623, $7,775, 2015

Pilot Study for a Distributed Acoustic Interface for Manned Space Habitats

Louisiana Space Consortium GSRA Award #101623, $33,700, awarded in 2015
Gabriela Petculescu

RCS grant, LA Board of Regents Support Fund, amount: $121,000, 2007-2011

ONR grant # N00014-10-1-0809, amount: $10,000, 2010

NASA–LaSPACE award # NNX10AI40H, amount: $20,000, 2010-2011

NSF-LINK award NSF(2013)-LINK-81, amount $6,000, 2013


SFRF – ONR, including $20,000, laboratory space w/ instrumentation not available at ULL, samples, and physics student for 10 weeks, May-July 2014.


STEP grant for revitalization of Physics Lab. computers: $7,760, funded Dec. 2015

Contract: SFRF–ONR, includes $22,000, laboratory, and summer student, May-July 2015

Natalia Sidorovskaia

“Development of the Ocean Acoustic propagation Model for the Louisiana Immersive Technologies Enterprise (LITE) environment”, Information Technology Initiative (ITI), UL Lafayette, $49,164


Source Characterization Study 2007 (Data Analysis/Modeling Component) Amnd. 2; OGP; $34,016 to UL, August 2010-June, 2011

Travel grant from the Russian ministry of education, $10,000 (2012-2013)

Travel Grant from the organizing committee of the International Conference on “The Effects of Noise on Aquatic Life,” Budapest, August 11-16, 2013, $3,000 (2013)

Travel Grant from the American Petroleum Institution $3,000 (2013)

Rui Zhang

13. AWARDS / HONORS

James B. Dent

KITP Scholar (Kavli Institute of Theoretical Physics at the University of California at Santa Barbara), 2015
Outstanding Advisor Award from the University of Louisiana at Lafayette, 2015
The Dr. and Mrs. Sammie W. Cosper Endowed Professorship, 2014-2017
Blavatnik Award Nominee for UL-Lafayette, 2014
Rising Star Award for the College of Sciences, 2014
Blavatnik Award Nominee for UL-Lafayette, 2013

Gary A. Glass

Dr. and Mrs. Sammie W. Cosper/BORSF Endowed Professor of Physics, 2008-2011

William A. Hollerman

Innovator Award, UL Lafayette Research Office, Completed research as part of the non-burning tracer patent, May 2013.

Gabriele Morra

Hensarling/Chapman Endowed Professorship in Geology from the School of Geosciences at UL Lafayette.

Gabriela Petculescu

National award: Office of Naval Research (ONR) Summer Fellowship (SFFP), May-July 2015
Innovator award – UL Lafayette for academic year 2013-2014

Natalia Sidorovskaia

Coca-Cola/BORSF Endowed Professorship, 2014-2017
Fellow of the Acoustical Society of America, 2013
14. OTHER PROFESSIONAL ACTIVITIES

James B. Dent

TedX speaker at TedX Vermilionville, September 2015 in Lafayette, LA
Youtube link: https://www.youtube.com/watch?v=pFAFepieIA

MEMBERSHIPS

American Physical Society
American Association of Physics Teachers

Gary A. Glass

Associate Editor for Radiation Effects and Defects in Solids, 2009-2010

William A. Hollerman

PATENTS


MEMBERSHIPS

American Institute of Aeronautics and Astronautics
IEEE Nuclear and Plasma Society
International Society for Optical Engineering (SPIE)
Sigma Pi Sigma, Physics Honor Society

Gabriele Morra

MEMBERSHIPS

American Association of Physics Teachers
American Geophysical Union
European Geosciences Union

Andi Petculescu

MEMBERSHIPS

Acoustical Society of America
American Physical Society
Audio Engineering Society


Associate Editor for the Journal of the Acoustical Society of America (2014-present, invited).


Associate Editor for the Journal of the Acoustical Society of America
Co-Editor for JASA’s first Special Issue “Acoustic and Related Waves in Extraterrestrial Environments”

Gabriela Petculescu

MEMBERSHIPS

Acoustical Society of America
American Physical Society
Sigma Xi, The Scientific Research Society

NSF Graduate Research Fellowship Program, Jan. 2015, National Panel Review for proposal review and selection.

Research program evaluation for promotion for an outside institution, 2015


Part of approved proposal to Oak Ridge National Lab CNMS, ID: CNMS2014-256. Project Title: “Investigation into the BCC Structure of Iron and its anomalies above 400 K.” This grant provides access to the User Nanoscience Research Program at the Center for Nanophase Materials Sciences (CNMS) for one week for our group.

Natalia Sidorovskaia

MEMBERSHIPS

Acoustical Society of America
American Geophysical Union
Sigma Pi Sigma National Physics Honor Society

Active in the Technical Committees on Underwater Acoustics and Signal Processing;

Participated in organizing the 75th Anniversary meeting of Acoustical Society of America; - Chairing the session at the 75th Anniversary meeting of Acoustical Society of America;

Participated in four Technical Program Organizing Meetings for Signal Processing, Underwater acoustics, and Animal Bioacoustics Technical Committees.
15. OUTREACH

William A. Hollerman

Speaking of Science (SoS):

- Rockets and Starships, Loranger Elementary School, Loranger, LA April 17, 2015.

Natalia Sidorovskaia

“What's Stories From the Gulf,” November 10, 2015 presentation at Lake Castle Madisonville Private School