

Dragoș Amarie, PhD

United States Citizen
European Union Citizen
Romanian Citizen

Department of Physics
Math-Physics Bldg. 2012
PO Box 8031
Statesboro, GA 30460
Office: +1 (912) 478-2265
damarie@georgiasouthern.edu
www.linkedin.com/in/dragosamarie

POSITIONS HELD

- 2017 - **Assistant Professor of Physics**
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 2016 - **Director of the Study Abroad Program: Physics in Romania: Science and Culture**
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 2015-2017 **Lecturer of Physics**
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 2014-2015 **Limited-Term Assistant Professor of Physics**
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 2014 **Confocal Support Specialist**
Leica Microsystems, Inc., Buffalo Grove, IL
- 2009-2014 **Postdoctoral Research Associate**
Biocomplexity Institute, Department of Physics, *Indiana University*, Bloomington, IN
- 2006-2009 **Co-Founder and Principal Scientist**
SpheroSense Technologies Inc., Bloomington, IN
- 2003-2009 **Research Assistant** (Prof. Glazier's Research Group)
Biocomplexity Institute, Department of Physics, *Indiana University*, Bloomington, IN
- 2003-2006 **Research Assistant** (Prof. Jacobson's Research Group)
Chemistry Department, *Indiana University*, Bloomington, IN
- 2002-2005 **Research Assistant** (Prof. Dragnea's Research Group)
Chemistry Department, *Indiana University*, Bloomington, IN
- 2002-2003 **Associate Instructor**, Department of Physics, *Indiana University*, Bloomington, IN
- 2000-2002 **Teaching Assistant**, Department of Physics, *University of Notre Dame*, Notre Dame, IN
- 1999-2000 **Socrates Scholar**, Department of Theoretical Physics, *Katholieke Universiteit*, Leuven, Belgium
- 1998-1999 **Physics Instructor**, Department of Physics, *Radu Cernatescu High School*, Iasi, Romania
- 1997-1998 **Physics Instructor**, Department of Physics, *Vasile Alecsandri High School*, Iasi, Romania

EDUCATION

- 2009 **Ph.D. in Experimental Biophysics**
Department of Physics and Biocomplexity Institute, *Indiana University*, Bloomington, IN
Thesis Title: *Micro-Fabricated Devices for Biological Assays*
Advisor: Prof. James A. Glazier (Physics)
Co-advisors: Prof. Bogdan Dragnea and Prof. Stephen C. Jacobson (Chemistry)
- 2004 **M.S. in Physics**
Department of Physics, *Indiana University*, Bloomington, IN
- 2000-2002 **Graduate Student**
Department of Physics, *University of Notre Dame*, Notre Dame, IN
Advisor: Prof. James A. Glazier (Physics)

- 1999-2000 **Socrates Fellow (Visiting Scholar)–Educational Initiative of European Union Commission**
 Department of Theoretical Physics, Katholieke Universiteit, Leuven, Belgium
 Advisor: Prof. Desire Bollé (Statistical Mechanics and Neural Network)
- 1999 **M.S. (Advanced Studies) in Theory of Nonlinear Phenomena**
 Department of Physics, Alexandru Ioan Cuza University, Iasi, Romania
 Advisor: Prof. Sorinel A. Oprisan (Statistical Mechanics)
- 1993-1997 **B.S. in Physics**
 Department of Physics, Alexandru Ioan Cuza University, Iasi, Romania

PUBLICATIONS

1. A. J. Dy, A. Cosmanescu, J. Sluka, J. A. Glazier, D. Stupack, **D. Amarie**
 Fabricating microfluidic valve master molds in SU-8 photoresist
The Journal of Micromechanics and Microengineering (2014) **24**, 057001 (SE, SA, PL) * [8][†]
2. **D. Amarie**, J. A. Glazier
 Label-Free Microcavity Biosensors: Steps toward Facilitate Personalized Medicine
Sensors (2012) **12**, 17262-17294 (invited paper) (PE, PA) [2]
3. **D. Amarie**, A. Alileche, B. Dragnea, J. A. Glazier
 Microfluidics Devices Integrating Microcavity Surface-Plasmon-Resonance Biosensors: Glucose Oxidase Binding Activity Detection
Analytical Chemistry (2010) **82**, 343-352 (PE, PA) [21]
4. **D. Amarie**, J. A. Glazier, S. C. Jacobson
 Compact Microfluidic Structures for Generating Spatial and Temporal Gradients
Analytical Chemistry (2007) **79**, 9471-9477 (PE, PA) [48]
5. S. Koyama[§], **D. Amarie**[§], H. A. Soini, M. V. Novotny, S. C. Jacobson
 Chemotaxis Assays of Mouse Sperm on Microfluidic Devices
Analytical Chemistry (2006) **78**, 3354-3359 (PE, SA) [47]
6. **D. Amarie**, T.-D. Onuta, R. Portyrailo, B. Dragnea
 Submicrometer Cavity Surface Plasmon Sensors
J. Phys. Chem. B (2005) **109**, 15515-15519 (PE, PA) [15]
7. **D. Amarie**[§], N.D. Rawlinson[§], W. L. Schaich, B. Dragnea, S. C. Jacobson
 Three-dimensional Mapping of the Light Intensity Transmitted through Nanoapertures
NanoLetters (2005) **5**, 1227-1230 (PE, PA) [21]
8. E.-S. Kwak[§], T.-D. Onuta[§], **D. Amarie**[§], R. Portyrailo, B. Stein, S. C. Jacobson, W. L. Schaich, B. Dragnea
 Optical Trapping with Integrated Near-Field Apertures
J. Phys. Chem. B (2004) **108**, 13607-13612 (PE, SA) [50]
9. K. D. Kloepper, T.-D. Onuta, **D. Amarie**, B. Dragnea
 Field-Induced Interfacial Properties of Gold Nanoparticles in AC Microelectrophoretic Experiments
J. Phys. Chem. B (2004) **108**, 2547-2553 (SE, SA) [8]
10. **D. Amarie**, C. Gherman, M. Ignat
 Aggregation on a toroidal domain of the random walk systems based on a record function
Physics Letters A (2000) **271**, 65-73 (PT, PA) [1]
11. **D. Amarie**, S. A. Oprisan, M. Ignat
 Random walk systems behavior based on record function
Physics Letters A (1999) **254**, 112-118 (PT, PA) [8]

*Roles: PE - primary experimentalist; SE - secondary experimentalist; PA - primary author; SA - secondary author; PT - primary theorist; PL - project leader.

[†] Citations as of Oct/01/2016 from Google Scholar given in [#] for each paper and for which citation information is available.

[§] Equal contributions, co-first authors.

PATENTS AND PATENT APPLICATIONS

1. J. A. Glazier, S. C. Jacobson, **D. Amarie**
Compact microfluidic structures for manipulating fluids
US Patent 9,440,207 Issued: 9/13/2016
2. J. A. Glazier, A. Alileche, A. Shrinifard, **D. Amarie**
Engineered lumenized vascular networks and support matrix
US Patent 9,267,099 Issued: 2/23/2016
3. J. A. Glazier, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 8,355,136 Issued: 1/15/2013
4. J. A. Glazier, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 8,169,615 Issued: 5/1/2012
5. J. A. Glazier, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 7,961,330 Issued: 6/14/2011
6. J. A. Glazier, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 7,961,329 Issued: 6/14/2011
7. J. A. Glazier, B. Dragnea, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 7,852,482 Issued: 12/14/2010
8. J. A. Glazier, B. Dragnea, **D. Amarie**
Sub-micron surface plasmon resonance sensor systems
US Patent 7,724,373 Issued: 5/25/2010
9. J. A. Glazier, A. Alileche, A. Shirinifard, **D. Amarie**
Engineered lumenized vascular networks and support matrix
US Patent Application Continuation 61/313,886, PCT/US2011/028492 Filed: 3/15/2010
10. J. A. Glazier, S. C. Jacobson, **D. Amarie**
Compact Microfluidic Structures for Manipulating Fluids
US Patent Application Continuation, WO/2009/039283, PCT/US2008/076868 Published: 3/26/2009

GRANT PROPOSAL WRITING EXPERIENCE

My contributions to writing these grant proposals is over 70%, including research ideas, aims and strategies, proposal writing, as well as preparing the budget and budget justification. The Principal Investigator of all these grant proposals was my former mentor, Prof. James A. Glazier, or the SpheroSense Tech. Inc. CEO.

1. NSF-PESO: Collaborative Research: Directing Tumor Cell Evolution with Microenvironment (2/2012)
2. NSF-PoLS: Collaborative Research: Towards a Physics of Morphogenesis (10/2011)
3. NSF-IDBR: Collaborative Research: Real Time Secretion: Single Cell Analyzer (7/2011) (**awarded \$750k**)

4. Faculty Research Support Program at Indiana University-Bloomington: Single-Cell Secretion Monitoring (6/2011) **(awarded \$75k)**
5. Faculty Research Support Program at Indiana University-Bloomington: High Throughput Single Cell Analyzer (6/2011)
6. NSF-EFRI-MIKS: Preliminary Proposal: Engineering Development: Design and Synthesis of Controlled Artificial Morphogenesis in Synthetic Metazoan Zygotes (11/2010)
7. NSF- IDBR: Microcavity Surface Plasmon Resonance Instrument for Quantifying Biochemical Secretion from Single Cells and Microtissues (8/2010)
8. NSF-PoLS: Collaborative Research: Physics of morphogenesis - engineered cells for artificial zygotes (7/2010)
9. NAKFI Synthetic Biology: Synthetic Zygotes: Programming matrix-autonomous morphogenesis of self-assembling artificial tissues from single engineered mammalian stem cells by dynamically controlled cell adhesion, patterning, and differentiation (2/2010)
10. Indiana 21st Century Research and Technology Fund Proposal: MSPR Biosensors Development (2/2008)
11. NSF-MRI MPSR Instrument Development (1/2008)
12. Indiana 21st Century Research and Technology Fund Proposal: MSPR Biosensors Development (5/2007)
13. NSF-MRI MPSR Instrument Development (1/2007)
14. Indiana 21st Century Research and Technology Fund Proposal: MSPR Biosensors Development (11/2006)
15. Indiana Bio-Crossroads: MSPR Biosensors Development (10/2006)
16. Walther Cancer Institute Pre-proposal: MSPR Biosensors as Efficient, Effective Alternatives to Microarrays for Cancer Cell Analysis (8/2006)
17. NIH R21 and R33 Phase: Study of complex physical mechanisms that govern patterning in developing limb by integrating microfluidics, computation and theory (2/2006)

TEACHING EXPERIENCE

- 2014 - **Undergraduate Teaching Studio Physics**
 Department of Physics, *Georgia Southern University*, Statesboro, GA
 Taught Calculus based *University Physics I and II* (15 sections, 550 science and engineering majors), *Introduction to Biophysics* (1 section, 14 Physics Majors), and Algebra based *College Physics I Lab* (6 sections, 240 non-science majors), prepared power point lecture presentations, assessment tools, trained students in experimental Physics techniques, developed their analytic, critical and problem solving skills, and managed 20 Teaching Assistants.
- 3/2014 **Teaching Confocal Microscopy to New Users as a Confocal Support Specialist**
Leica Microsystems, Inc. Buffalo Grove, IL
 Taught 6 scientists at *Brooke Army Medical Center*, Fort Sam Houston, TX.
 Taught 12 scientists at *Arkansas Nano-Bio Materials Characterization Facility*, University of Arkansas, Fayetteville, AR
- 2002-2014 **Teaching and Mentoring in the Research Laboratory**
 Biocomplexity Institute, Department of Physics, and Department of Chemistry, *Indiana University*, Bloomington, IN
 Taught and mentored 4 postdoctoral fellows, 4 graduate and 9 undergraduate students in subjects related to my field of expertise
- 2002-2003 **Associate Instructor in Physics**
 Physics Department, *Indiana University*, Bloomington, IN
 Led laboratory in undergraduate experimental mechanics (about 100 students)

2000-2002 **Teaching Assistant in Physics**

Physics Department, *University of Notre Dame*, Notre Dame, IN

Led discussions in undergraduate experimental mechanics and electromagnetism, laboratories in experimental mechanics and optics, and laboratories in advanced topics in undergraduate and graduate experimental physics (about 110 students)

1998-1999 **Physics Teacher**

Physics Department, *Vasile Alecsandri High School*, Iasi, Romania

Taught physics through lectures, seminars and laboratories at all levels from 6th to 12th grade (about 120 students)

1997-1998 **Physics Teacher**

Physics Department, *Radu Cernatescu High School*, Iasi, Romania

Taught physics through lectures, seminars and laboratories at all levels from 6th to 12th grade (about 130 students)

SERVICE

- GSU Senator, Undergraduate Committee Member and Faculty Service Committee Member (2016 -)
- Teaching Strategies Seminar Coordinator, Department of Physics, GSU (2015 -)
- Assessment Committee, Department of Physics, GSU (2015 -)
- COSM Staff Award Reviewer, College of Science and Mathematics, GSU (Jun 2016)
- Natural and Physical Sciences Judge, Research Symposium, Nessmith-Lane Center, GSU (Apr 2016)
- Volunteer for Recruiting and Educational Outreach:
 - Open House, Department of Physics, GSU (Apr 2016, Nov 2016)
 - Majors Fair, GSU (Sept 2016)
 - Study Abroad Fair, GSU (Sept 2016)
- Event Coordinator, *Crave the Wave* section, Science Olympiad, GSU (Feb 2015 - 2017)
- Volunteer, *A Day for Southern* fund raising, Department of Physics Representative, GSU (2015 - 2017)
- Faculty Attendance, Honors Day Ceremony (2015) and Spring Graduation Ceremony, GSU (2015 - 2017)
- Scientific Journals Reviewer:
 - Sensor Letters, Analytical Chemistry and Mathematical Biosciences (2010 - 2013),
 - Microsystem Technologies (2017 -)
- Volunteer for Educational Outreach:
 - Department of Physics Open House, IUB, (October 2009)
- Graduate student recruiter:
 - Prof. Bogdan Dragnea, Department of Chemistry, IUB (2005)
 - Prof. Stephen Jacobson, Department of Chemistry, IUB (2004)
- Workshop Organizing Assistant with Prof. Glazier, Biocomplexity Institute, Department of Physics, IUB:
 - International Workshop Biocomplexity VI: Complex Behavior in Unicellular Organisms (2004)
 - International Workshop Biocomplexity IV: Regenerative Biology & Medicine (2003)

PROFESSIONAL DEVELOPMENT

- 11/2017 Physics and Astronomy New Faculty Workshop, American Association of Physics Teachers, American Center for Physics, College Park, MD
- 10/2016 The Flipped Classroom: Strategies to Overcome Student Resistance and Increase Student Engagement, CT2-Center for Teaching and Technology, Georgia Southern University, Statesboro, GA

4/2016 Flipped Learning: Faculty Learning Communities, CT2-Center for Teaching and Technology, Georgia Southern University, Statesboro, GA

3/2016-4/2016 Assessment Toolkit Series: Rubrics, CT2-Center for Teaching and Technology, Georgia Southern University, Statesboro, GA

10/2015 Course Design Institute, CT2-Center for Teaching and Technology, Georgia Southern University, Statesboro, GA

10/2014 Southern Atlantic Coast Conference American Association of Physics Teachers Fall Meeting, College of Charleston, Charleston, SC

4/2014 Internal Training in Super Resolution Microscopy: Leica SP8 gSTED 3X (gated-STimulated Emission Depletion confocal microscopy), Leica Microsystems, Inc. Exton, PA

4/2014 Internal Training in Confocal Microscopy and Applications: TCS SP5, TCS SP8, MultiPhoton (MP) Confocal Microscopy, White Light Lasers (WLL), and Hybrid Detectors (HyD), Leica Microsystems, Inc. Exton, PA

2/2014 Basic Confocal Service Training, Leica Microsystems CMS GmbH, Mannheim, Germany

2/2012 The Confluence of Diagnostics and Therapeutics. Life Sciences Collaboration Conference. Barnes & Thornburg LLP, Indianapolis, IN

5/2011 The 2nd International Wyss Symposium – Microfluidics and Medicine: Accelerating the Flow from Lab to Clinic. Harvard University, Cambridge, MA

4/2011 The Principles of Fluorescence Techniques. The Fluorescence Foundation. University of Chicago, Chicago, IL

10/2010 COMSOL Workshop – Introduction to COMSOL Multiphysics, Indianapolis, IN

6/2008 COMSOL Training – Introduction to COMSOL Multiphysics, Cincinnati, OH

7/2006 Microfluidics Hands-On Workshop with Prof. Steve Quake, Bioengineering Department, Stanford University, Stanford, CA

4/2006 JILA-NIST Workshop on Interferometric Surface Plasmon Resonance Array Biosensors by Physics Nobel Laureate, Prof. John Hall, Colorado University, Boulder, CO

1/2004 Scanning Electron Microscopy Training on LEO EVO & 1400 series (now Carl Zeiss, Inc.) Redwood, CA

3/2003-4/2003 NATO ASI Spring School on Forces, Growth and Form in Soft-Condensed Matter: At the Interface between Physics and Biology, Geilo, Norway

1/2003-2/2003 Linz Winter Workshop on Single Molecule Techniques in Biophysics and Drug Delivery, Linz, Austria

8/2002 Jyväskylä Summer School on Biology: Imaging and Interactions of Biological Molecules, Jyväskylä, Finland

6/2002-7/2002 Marine Biological Laboratory Summer School on Physiology: The Biochemical and Molecular Basis of Cell Signaling, Woods Hole, MA

1999-2000 Socrates Student, Theoretical Physics Department, Katholieke Universiteit, Leuven, Belgium

SCHOLARSHIPS AND AWARDS

- 7/2011 **NSF-IDBR Collaborative Research:** (Awards: DBI-1152030 & DBI-1152223, \$750,000)
Project: Real Time Secretion: Single Cell Analyzer
PI: James A. Glazier, IUB; co-PI: Dwayne Stupack, UCSD
- 6/2011 **Indiana University-Faculty Research Support Program:** (\$75,000)
Project: Single-Cell Secretion Monitoring
PI: James A. Glazier
- 2/2008 **The 5th Annual Life Sciences Business Plan Competition: “Opportunity for Indiana”** Burton D. Morgan Center for Entrepreneurship, Purdue University, West Lafayette, IN
– SpheroSense Technologies, Inc. won the 3rd Place and \$25,000 award, a \$3,000 award from Ernst & Young, and a \$3,000 award from Baker & Daniels
- 3/2003-4/2003 **NATO ASI Spring School** (\$3,000) on Forces, Growth and Form in Soft-Condensed Matter: At the Interface between Physics and Biology, Geilo, Norway
“The Best Poster” Award
- 6/2002-7/2002 **Marine Biological Laboratory Scholarship** (\$3,000)
Physiology: The Biochemical and Molecular Basis of Cell Signaling
Woods Hole, MA
- 1999-2000 **Socrates Scholarship** (€5,000)
Statistical Mechanics and Neural Network Group, Department of Theoretical Physics, Katholieke Universiteit, Leuven, Belgium
- 1997-1999 **M.S. Scholarship**
Department of Physics, *Alexandru Ioan Cuza* University, Iasi, Romania
- 1993-1997 **B.S. Scholarship**
Department of Physics, *Alexandru Ioan Cuza* University, Iasi, Romania

LECTURES AND PRESENTATIONS

- 11/2016 S. B. Klein, **N. Mosavian***, J. Jenkins, J. D. Vo, D. Amarie and J. A. Glazier
Submicron surface plasmon biosensors for glucose concentration assessment,
3rd International Conference on Medical Physics and Biomedical Engineering, Barcelona, Spain
- 10/2015 **D. Amarie**
How to turn a YouTube video into an interactive learning experience,
South Atlantic Section of the American Association of Physics Teachers - Fall Meeting
Department of Physics, *The Citadel*, Charleston, SC
- 2/2015 **D. Amarie** (invited speaker)
Thinking of Personalized Medicine (Part II): A Microcavity Surface Plasmon Resonant Biosensor
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 10/2014 **D. Amarie** (invited speaker)
Thinking of Personalized Medicine (Part I): A Microcavity Surface Plasmon Resonant Biosensor
Department of Physics, *Georgia Southern University*, Statesboro, GA
- 3/2014 **D. Amarie** (New User Trainer, Leica Microsystems, Inc.)
Basics in Laser Scanning Confocal Microscopy
Brooke Army Medical Center, Fort Sam Houston, TX
- 3/2014 **D. Amarie** (New User Trainer, Leica Microsystems, Inc.)
Basics in Laser Scanning Confocal and MultiPhoton Microscopy
Arkansas Nano-Bio Materials Characterization Facility, University of Arkansas, Fayetteville, AR

- 8/2013 **D. Amarie** (invited speaker)
Label-Free Microcavity Biosensors: Steps towards Personalized Medicine
Middleton Research Co., Middleton, WI
- 12/2012 **D. Amarie** (invited speaker)
Label-Free Microcavity Biosensors: Steps towards Personalized Medicine
Department of Physics, Rowan University, Glassboro, NJ
- 10/2012 **D. Amarie** (informal talk)
Towards Personalized Medicine : Microcavity Biosensor Technology
Department of Biological Engineering, MIT, Cambridge, MA
- 8/2012 **D. Amarie** (invited speaker)
Microcavity Biosensors: Biomarker Detection Technology for the Future
Alfred Mann Foundation, Santa Clarita, CA
- 8/2012 **D. Amarie** (invited speaker)
Towards Personalized Medicine: Microcavity Surface Plasmon Biosensors
Alfred Mann Foundation, Santa Clarita, CA
- 7/2012 **D. Amarie** (invited speaker)
Diagnostic Development of Microcavity Surface Plasmon Biosensors: Non-invasive Single-Cell Secretion Analysis
Moores UCSD Cancer Center, University of California, San Diego, CA
- 7/2012 **D. Amarie** (invited speaker)
Towards Personalized Medicine: Microcavity Surface Plasmon Biosensors for Single-Cell Analysis
Department of Nanoengineering, University of California, San Diego, CA
- 6/2012 **D. Amarie** (invited speaker)
Real-time Biomarker Monitoring: Microcavity Biosensor Technology
Center for Studies in Physics and Biology, Rockefeller University, New York, NY
- 6/2012 **D. Amarie** (invited speaker)
Label-Free Microcavity Biosensors: Detection Technology to Facilitate Personalized Medicine
Computational Biology Seminar Series, T.J. Watson Research Center, IBM, Yorktown Heights, NY
- 8/2011 **D. Amarie** (poster w/ A. Dy, A. Cosmanescu, J. S. Gens, D. Stupack, J. A. Glazier)
Advances towards Real-Time Single Cell Secretion Analysis using Microcavity Biosensors
Cancer Detection and Diagnostics Technologies for Global Health, Bethesda, MD
- 3/2011 **D. Amarie** (poster w/ J. A. Glazier)
Microcavity Surface Plasmon Resonance Biosensors towards Personalized Medicine: Feasibility Study
GTCbio Conference on Molecular Diagnostics, Philadelphia, PA
- 8/2009 **D. Amarie** (invited speaker)
Microfluidics Devices Integrating Microcavity Surface-Plasmon-Resonance Biosensors: Glucose Oxidase Enzymatic Activity
The Third Annual q-Bio Conference on Cellular Information Processing Section: Special Session on Methods, Santa Fe, NM
- 8/2009 **D. Amarie** (poster w/ A. Alileche, B. Dragnea, J. A. Glazier)
Microfluidics Devices Integrating Microcavity Surface-Plasmon-Resonance Biosensors: Glucose Oxidase Enzymatic Activity
The Third Annual q-Bio Conference on Cellular Information Processing, Santa Fe, NM
- 4/2005 S. Koyama and **D. Amarie** (poster w/ H. A. Soini, K. E. Bruce, M. V. Novotny, S. C. Jacobson)
Chemotactic response of mouse sperm toward extracts from female reproductive organs,
12th Annual Indiana University Animal Behavior Conference, Bloomington, IN

- 4/2005 S. Koyama and **D. Amarie** (poster w/ H. A. Soini, K. E. Bruce, M. V. Novotny, S. C. Jacobson)
Sperm Chemotaxis Assays on Microfluidic Devices
Indiana Biosensor Symposium, Indianapolis, IN
- 4/2005 **D. Amarie** (poster w/ T.-D. Onuta, W. L. Schaich, B. Dragnea)
Sub-micron Surface Plasmon Biosensors for Microfluidic Applications
Indiana Biosensor Symposium, Indianapolis, IN
- 2/2005 **D. Amarie** (invited speaker)
Sub-micron Surface Plasmon Biosensors
Material Science Seminar, Department of Chemistry, Indiana University, Bloomington, IN
- 2/2005 **D. Amarie** (poster w/ T.-D. Onuta, W. L. Schaich, B. Dragnea)
Sub-micron Surface Plasmon Biosensors,
The 49th Biophysical Society Annual Meeting, Long Beach, CA
- 4/2003 **D. Amarie** and T.-D. Onuta (poster w/ C. Chen, E.-S. Kwak, W.L. Schaich, B. Dragnea)
Near-Field Optical Trapping of Single Viruses
NATO ASI Spring School Forces, Growth and Form in Soft-Condensed Matter: At the Interface between Physics and Biology, Geilo, Norway
- 9/1998 **D. Amarie** (invited speaker)
Stochastic Mechanism of Functional Analysis
The National Conference of Physics, Constanta, Romania

* presenter name in bold face

SCIENTIFIC SOCIETY MEMBERSHIPS

1. Sigma Xi – The Scientific Research Society, GSU Chapter
2. American Association of Physics Teachers (SACS-AAPT), Southern Atlantic Coast Section
3. American Physical Society, Division of Biological Physics
4. Indiana Microscopy Society
5. American Chemical Society
6. Biophysical Society

IMPACT OF RESEARCH IN THE MEDIA

- 1/14/2008 *Technology Transfer Tactics*: University start-up set to commercialize sepsis testing device
- 1/7/2008 *The Courier-Journal*: Indiana firm to market biosensors
- 1/1/2008 *The Indianapolis Star*: From student's lab to commercial viability
- Fall/2007 *Indiana University Alumni Association – Constituent Periodicals Archives/Chemistry*: A vision for the present and for the future, by Michael A. McRobbie, The 18th President of Indiana University
- 10/4/2007 *Indiana Daily Student*: Life science, technology sectors create new jobs (SpheroSense only)
- 10/1/2007 *Biotech Transfer Week*: IU Grants Spinout SpheroSense License to Biosensor Tech
- 10/1/2007 *The Herald Times*: Business grows from IU science researchers
- 9/29/2007 *IUB Department of Physics - News and Events*: License agreement in hand, high-tech business will open in Bloomington
- 9/29/2007 *IU News*: Business grows from IU science researchers
- 9/26/2007 *Inside Indiana Business*: High-Tech Business to Open in Bloomington
- 9/26/2007 *IU News*: License agreement in hand, high-tech business will open in Bloomington
- 7/8/2007 *Inside Indiana Business*: Sepsis Signals (JAG on TV)
- 4/6/2007 *IU Home Pages*: Biosensors at the bedside: New hand-held testing device could revolutionize health care

3/27/2007 *Indiana University Media Relations*: New hand-held testing device could revolutionize health care

3/7/2007 *Indiana Daily Student*: IU researchers develop 'biosensors' Discovery could have drastic effects in sepsis detection

2/19/2007 *DOTmed News*: Biosensors at Hospital Bedside May Detect Sepsis

2/20/2007 *The Indianapolis Star*: New device tests for early signs of septic shock

2/19/2007 *Recepción a Iconocast*: Biosensores en la cabecera: El nuevo dispositivo de prueba podía revolucionar cuidado medico

2/19/2007 *Medical News Today*: Biosensors At The Bedside: New Testing Device Could Revolutionize Health Care

2/19/2007 *Spirit India*: Biosensors at the bedside could revolutionize health care

2/14/2007 *Stockgroup Media*: IU Start-Up Develops Device For Early Detection of Blood Infection

2/13/2007 *Inside Indiana Business*: IU Start-Up Develops Device For Early Detection of Blood Infection

2/12/2007 *Newswise*: Biosensors at the Bedside: New Testing Device Could Revolutionize Health Care

2/12/2007 *Indiana University Media Relations*: Biosensors at the bedside – New hand-held testing device could revolutionize health care

5/19/2006 *Science Daily*: Even When Faint, Ovary Scent Draws Sperm Cells

5/18/2006 *Newswise*: Even When Faint, Ovary Scent Draws Sperm Cells

5/18/2006 *IU News Room*: Even When Faint, Ovary Scent Draws Sperm Cells

5/2005 *Photonics Spectra*: Photoresist Replicates Transmission through Nanoholes – Presstime Bulletin