VISITING SCIENTISTS

INDIANA UNIVERSITY SOUTHEAST
SCHOOL OF NATURAL SCIENCES

Please share this with your colleagues.
TO THE SCIENCE TEACHERS

The Visiting Scientist Program enables professors in the School of Natural Sciences at Indiana University Southeast to speak on various topics and on a voluntary basis to middle and high school students.

We believe that these visits can be valuable learning experiences for your students. Each faculty member is active and well qualified in his/her field and will bring exciting discussion to your school. It is our hope that through this outreach you and your students will become more versed in the expertise that resides in the region and tap them as necessary.

The School of Natural Sciences offers a wide selection of courses and has baccalaureate degree programs in Allied Health, Biology, Chemistry, Computer Science, Geosciences, Informatics, Mathematics and Physics.

The School of Natural Sciences vision – to excel in education and scientific research – manifests in our mission to provide excellent science, mathematics, and computing education through teaching, scholarship, and service. Many of our faculty members are internationally known and work at the cutting-edge of their specialty subjects and fields. Our students have access to state-of-the-art computing and science instrumentation. We will be glad to assist your quest to enrich your student’s knowledge in the biological, computing and physical sciences, and mathematics.

Emmanuel Otu  
Dean

ARRANGEMENTS

Schools interested in participating in this program should make a written request using one of the forms provided in this brochure. When we receive your request, a confirmation on one of the dates you listed will be sent to you. After receiving confirmation, you should direct all questions concerning the visit directly to the scientist.

IT IS SUGGESTED THAT YOU CONTACT THE SCIENTIST SEVERAL DAYS PRIOR TO HIS/HER VISIT FOR ANY FINAL ARRANGEMENTS TO BE MADE, ESPECIALLY CONCERNING ANY AUDIO-VISUAL NEEDS.

Should you desire more information about the IU Southeast School of Natural Sciences Visiting Scientist Program, please call (812) 941-2094.
GENERAL INFORMATION

We, in the School of Natural Sciences at IU Southeast, feel that many of our faculty members have interests and are pursuing research problems which may appeal to middle and high school students. The scientists listed in this brochure are willing to come to your school and speak on the topics they have indicated. For their visit to be effective and meaningful, it is suggested that the group size be kept as small as possible, thereby allowing for interaction between the scientist and students. Hopefully, from participation in the program, students will receive the benefits of:

1. Informal discussions of scientific problems and interests with a scientist who is working in these areas, and
2. Up-to-date information brought by the scientist from his/her laboratory into your classroom.

Your written request must be processed one month in advance of the scientist’s visit to your school. All traveling expenses incurred by the scientist on his or her visit to your school will be covered by the School of Natural Sciences.

PLEASE DO NOT ASK THE SCIENTIST TO:
1. Speak for more than one hour.
2. Be a substitute teacher.
3. Give a general assembly or convocation program.
4. Speak to a class in which the students do not have sufficient background knowledge for a general understanding of the subject to be discussed.

THIS PROGRAM IS FOR MIDDLE AND HIGH SCHOOL STUDENTS INTERESTED IN THE SCIENTIST’S RESEARCH AND INTEREST AREAS: IT IS NOT AN ENTERTAINMENT FEATURE. EACH TEACHER IS LIMITED TO A MAXIMUM OF TWO VISITING SCIENTISTS PER COURSE TAUGHT PER YEAR.

SCIENCE FACULTY

ATTUM, OMAR
Assistant Professor of Biology. Ph.D., University of Louisville.
Office Phone: (812) 941-2634
E-mail: oattum@ius.edu
Website: http://homepages.ius.edu/oattum
Topics:
“Wildlife Conservation and Management”
“Habitat fragmentation”
“Conservation of desert ungulates: gazelles and Nubian ibex”
“Wetland wildlife and wetland conservation”
“Conservation of turtles and tortoises”
“Urban ecosystems and invasive species”
“Desertification and climate change in North Africa and the Middle East”
“Wildlife of North Africa and the Middle East”

BAKER, CRUMP W.
Professor of Mathematics. B.S., M.S., Ph.D., University of Kentucky.
Member: American Mathematical Society, Mathematical Association of America.
Office Phone: (812) 941-2272
E-mail: cbaker@ius.edu
Topics:
“Limits”

Note: Available Fall Semester only
CONNERLY, PAMELA
Assistant Professor of Biology. B.A., Earlham College; M.S., Ph.D., The University of Chicago. Postdoctoral work: Miami University, Ohio.
Member: American Society for Cell Biology, American Society for Microbiology, Indiana Academy of Science, Association for Biology Laboratory Education, Associate faculty of IU Graduate School.

Office Phone: (812) 941-2131
E-mail: pconnerl@ius.edu

Topics:
“What’s a Bacteriophage and What Do You Mean They’re Everywhere?”
“Cell Division Gone Wrong: Molecular Characteristics of Cancer”

PHOTO

DARNOWSKI, DOUG
Associate Professor of Biology. B.S. in Biology, Yale University; Ph. D. in Plant Biology, Cornell University; PostDoc in Crop Sciences at the University of Illinois at Urbana-Champaign. Taught 4 years at Washington College in Maryland.

Cell Phone: (812) 972-8590
Website: http://triggerplants.org
E-mail: ddarnows@ius.edu

Topics:
“Carnivorous Plants”
“Explosively Pollinated Triggerplants from Australia”
“Where The Fruits We Eat Come From”

Note: Open to other suggested topics including anything in plant biology or history of eugenics.

PHOTO

EDMONDS, KENT E.
Associate Professor of Biology. B.A. in Biology, University of California, Santa Cruz; Ph.D. in Biology, University of Delaware. Postdoctoral Work: North Carolina State University and the University of Massachusetts, Amherst.
Member: American Society of Mammalogists, Society for Research on Biological Rhythms, Indiana Academy of Science, Society for Behavioral Neuroendocrinology, Society for Integrative and Comparative Biology.

Office Phone: (812) 941-2376
E-mail: kedmonds@ius.edu

Topics:
“What is Physiology?”
“Physiology of Reproduction”
“Biological Rhythms”
“Melatonin”
“Photoperiodism”

PHOTO

FLEISCHER, JAN M.
Senior Lecturer in Chemistry. B.A., M.S.R., St. Louis University; Ph.D., Yale University. Postdoctoral work: Case Western Reserve University. Member: American Chemical Society, American Chemical Society Women Chemists, American Association for the Advancement of Science, Indiana Academy of Science. IU Southeast Distinguished Teaching Award, 2009.

Office Phone: (812) 941-2139
E-mail: jmfleisc@ius.edu

Topics:
“Stereochemistry”
“Polymers”
HETTIARACHCHI, SURANGA
Assistant Professor of Computer Science.
B.S. and Ph.D., University of Wyoming.
Member: Institute of Electrical and Electronics Engineers (IEEE).
Office Phone: (812) 941-2698
E-mail: suhettia@ius.edu
Topics:
“Autonomous Mobile Robots”
“Swarm Robotics and Intelligent Agents”
“Adaptive Learning Algorithms”

FORINASH, KYLE
Professor of Physics. B.S., University of Georgia; Ph.D., Clemson University. IU Southeast Distinguished Teacher of the Year Award, IU Southeast Distinguished Research and Creativity Award and Fulbright Scholar.
Office Phone: (812) 941-2039
E-mail: kforinas@ius.edu
Topics:
“What do we know about climate change?”
“Ending the fossil fuel addiction: What will it take?”

HUNT, RANDY
Associate Professor of Biology. B.S. and M.S., Kent State University; Ph.D., The Ohio State University; Post-Doctoral studies, University of Kentucky.
Member: Associate faculty of Indiana University Graduate School, American Association for the Advancement of Science, Entomological Society of America and Animal Behavior Society.
Office Phone: (812) 941-2380
E-mail: RHUNT01@ius.edu
Topics:
“The Secret World of Vibrational Communication in Insects”
“The Impact of Insects on Human History”

HAUB, ELAINE K.
Associate Professor of Chemistry. B.A., Indiana University Southeast; Ph.D., University of Louisville.
Member: American Chemical Society, Indiana Academy of Science. IU Southeast Distinguished Teaching Award winner 2001, IU President’s Award for Teaching Excellence 2003, Metroversity Adult Learner Outstanding Teaching Award 2009.
Office Phone: (812)941-2528
E-mail: ehaub@ius.edu
Topics:
“It’s a CHEMagical World”
“Chemical Research at IU Southeast”

HUNT, RANDY
Associate Professor of Biology. B.S. and M.S., Kent State University; Ph.D., The Ohio State University; Post-Doctoral studies, University of Kentucky.
Member: Associate faculty of Indiana University Graduate School, American Association for the Advancement of Science, Entomological Society of America and Animal Behavior Society.
Office Phone: (812) 941-2380
E-mail: RHUNT01@ius.edu
Topics:
“The Secret World of Vibrational Communication in Insects”
“The Impact of Insects on Human History”
**KIMMER, CHRISTOPHER**  
Assistant Professor of Informatics.  B.S., Wake Forest University; M.S., University of Louisville; Ph.D., Cornell University.  
Member: Association for Computing Machinery.  
Office Phone: (812) 941-2009  
E-mail: cjkimmer@ius.edu  

*Topics:*  
“Visualizing Information”  
“How Scientists Use Computers”  

**LANG, W. CHRISTOPHER**  
Professor of Mathematics.  B.A., Reed College; M.A. and Ph.D., University of Oregon.  
Member: American Mathematical Society, Mathematical Association of America, Society of Industrial and Applied Mathematics, American Association for the Advancement of Science.  
Office phone: (812)941-2270  
E-mail: wclang@ius.edu  

*Topics:* (both topics suitable for high school students)  
“The Golden Ratio”  
“My Research Sucks: Analysis of Biophysical Diagnostic Data”  

**OTU, EMMANUEL**  
Professor of Chemistry, Dean, School of Natural Sciences.  
B.S., University of Ife, Nigeria; Ph.D., University of Ottawa, Canada. Postdoctoral work: University of Waterloo, Canada (Departments of Chemical Engineering and Chemistry).  
Member: American Chemistry Society, Council on Undergraduate Research, Associate faculty of IU Graduate School.  
Office Phone: (812) 941-2094  

*Topics:*  
“Green Chemistry; Use of Solvents that are Benign to Human Health and the Environment”  
“Recovery of Metals from Ores”  
“What do Analytical/Environmental Chemists Do?”  

**RAMACHANDRAN, SRIDHAR**  
Assistant Professor of Informatics.  B.E., University of Mumbai; M.S. and Ph.D., Wright State University.  
Member: BioInformatics Research Group (BiRG), Informatics Honor Society & Informatics Club.  
Office Phone: (812) 941-2193  
E-mail: sriramac@ius.edu  

*Topics:*  
“What is Informatics?”  
“Careers in Informatics”
**SETTERDAHL, AARON**  
Assistant Professor of Chemistry. B.S., Iowa State University; Ph.D., Texas Tech University. Post-doctoral fellow Indiana University, Bloomington, IN. Japanese Society for the Promotion of Science Fellow, Osaka, Japan; Member: American Chemical Society and the Indiana Academy of Science.  
Office Phone: (812) 941-2462  
E-mail: asetterd@ius.edu  
Topics:  
“Discovery of Unknown Gene Function in Bacteria”  
“Biochemistry”

**TAYLOR, DAVID WINSHIP**  
Professor and Head of Biology, Curator of the Herbarium. B.A., The University of Chicago; M.S., SUNY Binghamton University; Ph.D., University of Connecticut. Post-doc Yale University. Member: Botanical Society of America, International Organization of Paleobotanists, American Association of Stratigraphic Palynologists, American Society of Plant Taxonomists.  
Office Phone: (812)941-2377  
E-mail: dwtaylor2@ius.edu  
Topics:  
“Green Planet: The History of Plants (Based on temporary exhibit at the Falls of the Ohio State Park Interpretive Center, Clarksville, IN)”  
“Flowers and pollinators interactions in your garden”  
“Fossil flowering plants: from oaks to water lilies”  
“Tracking molecular fossils, looking for oil using biomarkers”

**TREVES, DAVID**  
Associate Professor of Biology. Ph.D., University of Michigan. Member: American Society of Microbiology, Indiana Academy of Science, IUS Distinguished Research & Creativity Award (Junior Faculty) 2005.  
Office Phone: (812) 941-2129  
E-mail: dtreves@ius.edu  
Topics:  
“Microbial Evolution”  
“Microbiology of Sulfur Enriched Mineral Springs in Indiana and Kentucky”

**ZIMMERMAN, MICHELE R.**  
Senior Lecturer in Biology. B.S., Indiana University; Ph.D. University of Louisville. Member: American Association of Clinical Anatomists, Indiana Colleges of Biology Teachers.  
Office Phone: (812) 941-2192  
E-mail: micrzimm@ius.edu  
Topics:  
“Have A Heart-Learn all about our cardiovascular system with emphasis on the heart”
VISITING SCIENTISTS PROGRAM

Request Form #1

Complete and return to: Visiting Scientist Program
School of Natural Sciences
Indiana University Southeast
4201 Grant Line Road
New Albany, IN 47150
Phone Number: (812) 941-2094
Fax Number: (812) 941-2637

1. Scientist’s name: ___________________________________________

2. Discussion topic selected from those proposed: __________________________ 
   __________________________________________________________

3. Grade-level of group: _________________________________________

4. Number of group: __________________________________________

5. Time: (begin) _____________________  (end) ___________________

6. Date desired for visit:__________________________________________

7. Alternate dates (please list 3)
   1) ________________     2) ________________    3) ________________

8. School name: ______________________________________________

9. Name of faculty member making this request:__________________________

10. School address:    ____________________________________________  
    _____________________________________________________________

11. Contact telephone number: ___________________________________
VISITING SCIENTISTS PROGRAM

Request Form #2

Complete and return to: Visiting Scientist Program
School of Natural Sciences
Indiana University Southeast
4201 Grant Line Road
New Albany, IN 47150
Phone Number: (812) 941-2094
Fax Number: (812) 941-2637

1. Scientist's name: ___________________________________________

2. Discussion topic selected from those proposed: __________________________
________________________________________________________________________

3. Grade-level of group: _________________________________________

4. Number of group: __________________________________________

5. Time: (begin) _____________________  (end) ___________________

6. Date desired for visit:__________________________________________

7. Alternate dates (please list 3)
   1) ________________     2) ________________    3) ________________

8. School name: ______________________________________________

9. Name of faculty member making this request:__________________________

10. School address:    ____________________________________________

11. Contact telephone number: ___________________________________
VISITING SCIENTISTS PROGRAM

Request Form #3

Complete and return to: Visiting Scientist Program
School of Natural Sciences
Indiana University Southeast
4201 Grant Line Road
New Albany, IN 47150
Phone Number: (812) 941-2094
Fax Number: (812) 941-2637

1. Scientist's name: ___________________________________________

2. Discussion topic selected from those proposed: __________________________
   ___________________________________________________________________

3. Grade-level of group: _____________________________________________

4. Number of group: _________________________________________________

5. Time: (begin) _____________________  (end) ___________________

6. Date desired for visit:__________________________________________

7. Alternate dates (please list 3)
   1) ________________     2) ________________    3) ________________

8. School name: ________________________________________________

9. Name of faculty member making this request:__________________________

10. School address:    ____________________________________________
   _____________________________________________________________

11. Contact telephone number: _____________________________________
VISITING SCIENTISTS PROGRAM

Request Form #4

Complete and return to: Visiting Scientist Program
School of Natural Sciences
Indiana University Southeast
4201 Grant Line Road
New Albany, IN 47150
Phone Number: (812) 941-2094
Fax Number: (812) 941-2637

1. Scientist’s name: ___________________________________________

2. Discussion topic selected from those proposed: __________________________
   ___________________________________________________________

3. Grade-level of group: _________________________________________

4. Number of group: __________________________________________

5. Time: (begin) _____________________  (end) ___________________

6. Date desired for visit:__________________________________________

7. Alternate dates (please list 3)
   1) ___________________  2) ___________________  3) ___________________

8. School name: ______________________________________________

9. Name of faculty member making this request:__________________________

10. School address: _____________________________________________
     ___________________________________________________________

11. Contact telephone number: ___________________________________
RESIDENT FACULTY MEMBERS
IN THE SCHOOL OF NATURAL SCIENCES

Arnold, Janet Ms.
Attum, Omar Dr.
Baker, Crump W. Dr.
Bhattacharya, Chhandashri, Dr.
Bonacci, Kimberly Ms.
Cochran, Dee Ms.
Connerly, Pamela Dr.
Darnowski, Douglas Dr.
De, Subhranil Dr.
Doyle, John Dr.
Edmonds, Kent Dr.
Ehringer, Margaret Ms.
Finkbine, Ronald Dr.
Fleischer, Jan Dr.
Forinash III Kyle Dr.
Franklin, Clint Mr.
Galvin, Peter Dr.
Granda, Carolyn Ms.
Haub, Elaine Dr.
Hietterachchi, Suranga Dr.
Hollingsworth, Joseph Dr.
Hunt, Randy Dr.
Johnson, Sandy Ms.

Kimmer, Chris Dr.
Kirchner, Gretchen Dr.
Konychev, Anton Dr.
Lang, W. C. Dr.
Light, Cindy Ms.
Manwani, Ghansham Mr.
Mason, Glenn Dr.
Miller, Phillip Mr.
Nassim, Ben Dr.
Otu, Emmanuel Dr.
Ramachandran, Sridhar Dr.
Riehm, Rose Ms.
Rueschhoff, Beth Dr.
Ruth, Gerald Dr.
Setterdahl, Aaron Dr.
Shi, Dylan Dr.
Sung, Chang Oan (Chris) Dr.
Taylor, David Winship Dr.
Treves, David Dr.
Vernia, Mildred Ms.
Waingeh, Victor Dr.
Wiseman, Ray Mr.
Zimmerman, Michele Dr.