

# THE SCOPE



**Michigan Branch- American Society for Microbiology  
Fall 2002 Conference**

## **Emerging and Reemerging Infectious Diseases**

*Saturday, October 12, 2002 (9:15am-3:00pm)  
University of Michigan - Flint  
Flint, Michigan*

The Fall 2002 meeting of the Michigan Branch-American Society for Microbiology will be held at the University of Michigan - Flint, located in Flint, MI. There will be three exciting seminars on emerging and reemerging infectious diseases by Drs. Duane Newton (University of Michigan), John LiPuma (University of Michigan), and Paul Ewald (University of Louisville) with a student poster session and corporate sponsor exhibits. Please mark your calendars for this event!

# Michigan Branch - American Society for Microbiology



## President's Message

Greetings from MI-ASM President Judith Whittum-Hudson.

As a new academic year coincides with final planning for our Fall 2002 MI-ASM Branch meeting, I would like to invite you attend this year's Fall meeting, which will be hosted by University of Michigan-Flint on Saturday, October 12. In addition to hearing a stimulating group of speakers who will present talks related to Emerging and Re-emerging Infectious Diseases, the Fall meeting also presents opportunities to meet new and returning members from around the State, and to view posters covering additional areas of microbiology research representative of the many institutions in Michigan. More details about the program and registration are included in this newsletter and online at <http://mi-asm.org/>.

The Branch remains vibrant and has a growing membership from the various venues for microbiology in Michigan. With the help and support of many MI-ASM members, we continue to reach and attract a diverse membership from all areas of Michigan. During the coming year, I hope to help the MI-ASM Branch in its continued support of existing and new student chapters in the Branch. All of us on the Executive Committee, and many other members, feel that active student chapters of MI-ASM are important for the future of the field of microbiology in Michigan. During the coming year, we hope to support student activities in a number of ways, including at least partial support towards attending the National ASM meeting for students presenting their data. You will hear more about this at the Fall meeting and on the MI-ASM website.

Another goal for this year is to increase the number of Branch members who are also members of National ASM. The cost of membership has been reduced substantially in the last couple of years, and for students and trainees, it is a bargain. The MI-ASM Branch will continue to support student memberships in National through student chapters and prizes, but I encourage all Branch members to consider full membership in National ASM. National ASM has awarded our Branch important grants through the years to support increased Branch activities.

**So, mark your calendars for the Fall Branch meeting, and we will hope to see you in Flint on October 12.**

Judith Whittum-Hudson

## President-Elect's Message

We are actively working behind the scenes to plan future branch meetings. The Spring 2003 MI ASM meeting will be held Saturday April 5<sup>th</sup>, 2003 at Pfizer Global R & D Laboratories in Ann Arbor, MI. Please contact us if you have suggestions for meeting topics, venues, or for specific speakers. ([Michael.Huband@Pfizer.com](mailto:Michael.Huband@Pfizer.com)).

Michael Huband

## Secretary's Message

I'm happy to greet you as your new MI-ASM Secretary! This is my first term, so I'm learning the ropes! Please feel free to mention to me anything that I might have overlooked in my duties as your officer-in-service. This is one of the most vibrant branch organizations, and I'm honored to serve. I invite you to take time to come by to chat with me at our next MIASM sponsored conference for us to get better acquainted!

Jia Liu

## Treasurer's Report

The current balance in our Treasury is \$13,124! Our finances are in excellent shape!

Jeff Hobden

## In Memorial: Linda E. Fisher

Linda Elaine Fisher, associate professor of biology and microbiology and chair of the biology discipline at the University of Michigan-Dearborn, died on August 13.

Fisher's research activities focused on virology and microbiology with special interest in emerging infectious diseases, including measles, West Nile virus and HIV. She was a national leader in the area of science education, and lectured widely to professional groups on ways to improve science teaching at the secondary and college levels, and on ways to encourage women and minorities to pursue careers in science.

"Her teaching was characterized by deep concern for students' learning and for their ability to write," according to physics Prof. Paul W. Zitzewitz, chairman of the Department of Natural Sciences.

"She was the kind of colleague with whom you could feel comfortable in discussing both professional and personal issues, and for that reason, she had many close friends across campus. Even though she had health problems over the past few years, she remained cheerful and positive and devoted to the university."

She was active in the American Society for Microbiology at both the local and national levels. In 2001, she received a two-year appointment in the Waksman Foundation for Microbiology lecturers program, which provides speakers for scientific meetings.

For further information on Linda Fisher's career and a memorial fund established for students in her memory, please visit "[http://www.umd.umich.edu/univ/ur/press\\_releases/aug02/fisher\\_pr.html](http://www.umd.umich.edu/univ/ur/press_releases/aug02/fisher_pr.html)" or contact Terry Gallagher at (313) 593-5518.

\*\*\*\*PLEASE COPY AND POST IN YOUR DEPARTMENT!\*\*\*\*

Fall 2002 MI-ASM Conference  
Emerging and Reemerging Infectious Diseases

Saturday, October 12, 2002 (9:15am-2:30pm)

University of Michigan - Flint, Flint, Michigan



- 8:15-9:15 AM Registration, Poster/Exhibits set-up, Continental Breakfast.
- 9:15-9:30 AM Welcome and Opening Remarks.  
Dr. Juan Mestas, University of Michigan - Flint Chancellor.  
Dr. JudithWhittum-Hudson, President of Michigan Branch ASM  
Dr. Michael A. Cohen, Corporate Liaison
- 9:30-10:30 AM Dr. Duane Newton, Assistant Director of the Clinical Microbiology and Virology Laboratories at the University of Michigan Medical Center, Clinical Assistant Professor in the Department of Pathology, UM Medical School.  
"WEST NILE AND OTHER MOSQUITO-BORNE VIRUSES IN THE U.S. AND MICHIGAN."
- 10:30-10:50 AM Coffee Break/Visit Posters & Corporate Exhibits.
- 10:50-11:50 AM Dr. JohnLiPuma, Associate Professor of Pediatrics at the University of Michigan School of Medicine, and Associate Professor of Epidemiology at the UM School of Public Health.  
"PHYTONOTIC INFECTION: THE *BURKHOLDERIA CEPACIA* STORY - FROM ONION ROT TO LUNG DISEASE."
- 11:50-1:15 PM Lunch and Business Meeting (vote on constitutional changes)/Visit Corporate Exhibits and Student Posters/Chat with Speakers.
- 1:30-2:30 PM Dr. PauEwald, Professor of Biology at the University of Louisville.  
"THE EVOLUTIONARY CONTROL OF VIRULENCE AND ANTIBIOTIC RESISTANCE AMONG DIARRHEAL DISEASES: DARWIN IN THE LAND OF OOZE."
- 2:30 PM to end Informal talks with speakers, tours of University of Michigan - Flint Biology facilities.

**For additional information and registration, please visit:**

**<http://mi-asm.org/>**

**NOTE: To ensure reservations for lunch and the meeting, please pre-register electronically at the MI-ASM homepage or by calling Dr. Debra Piddington at (734) 622-1454. For phone registration, please leave your name and contact information for each registrant.**

Fall 2002 MIASM Conference  
Emerging and Reemerging Infectious Diseases  
Saturday, October 12, 2002 (9:15am-2:30pm)  
University of Michigan - Flint, Flint, Michigan  
Seminar Speaker Bios



"WEST NILE AND OTHER MOSQUITO-BORNE VIRUSES IN THE U.S. AND MICHIGAN" by Dr. Duane Newton, Assistant Director of the Clinical Microbiology and Virology Laboratories at the University of Michigan Medical Center, and Clinical Assistant Professor in the Department of Pathology, UM Medical Center.

Dr. Newton is twice a graduate of the University of Dayton, Dayton, OH. He received his B.S. in Microbiology in 1988 as well as his Ph.D. in Biology, with an emphasis in Microbiology and Immunology, in 1991. His research work focused on the role of Natural Killer cells in murine innate resistance to bacterial infections. His post-graduate work included a research fellowship at the University of Tennessee-Memphis and VA Medical Center in Memphis, TN where he studied host and pathogen factors affecting the severity of Group A streptococcal infections in humans. This was followed by an ASM-sponsored Clinical Microbiology laboratory training fellowship at the University of Rochester Medical Center in Rochester, NY. In 2000, Dr. Newton joined the Michigan Department of Community Health as the manager of the Virology/Immunology Section in the Bureau of Laboratories, and in July of 2001 he assumed his current position at UM. His research interests include the development and improvement of diagnostic tests for the detection and management of viral infections.

"PHYTONOTIC INFECTION: THE *BURKHOLDERIA CEPACIA* STORY - FROM ONION ROT TO LUNG DISEASE." by Dr. John LiPuma, Associate Professor of Pediatrics at the University of Michigan Medical Center, and Associate Professor of Epidemiology at the UM School of Public Health.

Dr. LiPuma is Director of the Cystic Fibrosis Foundation Research Laboratory and Repository at the University of Michigan. He received his B.S. from Amherst College, Buffalo, NY and his M.D. from the University of Louisville School of Medicine. He completed his residency in Pediatrics and Infectious Diseases at the University of Michigan, Ann Arbor. He was a member of the faculty at MCP/Hahnemann University, Philadelphia from 1986 to 1999 when he returned to the University of Michigan.

Dr. LiPuma's research in infectious diseases has focused on the epidemiology of *B. cepacia* complex for many years. He has used molecular genetics to identify new members within the *B. cepacia* complex, and to aid in associating *Burkholderia* species with cystic fibrosis.

"THE EVOLUTIONARY CONTROL OF VIRULENCE AND ANTIBIOTIC RESISTANCE AMONG DIARRHEAL DISEASES: DARWIN IN THE LAND OF OOZE." By Dr. Paul Ewald, Professor of Biology at the University of Louisville, Louisville, KY.

Dr. Paul Ewald obtained his B.Sc. in Biological Sciences from the University of California, San Diego. He received his Ph.D. in Zoology from the University of Washington, Seattle, Washington. His area of special interest in his doctoral research was Ecology and Evolution. Dr. Ewald recently moved to Louisville after serving as Professor of Biology at Amherst College, Amherst, Massachusetts. While at Amherst, he was the recipient of George R. Burch Fellowship in Theoretic Medicine and Affiliated Sciences.

Dr. Ewald's research interests in the evolution of infectious diseases include the evolution of parasitism, evolutionary medicine, pollination biology and agonistic behavior. In 1994, he received the Book of Evolution of Infectious Diseases which brought new attention to the study of evolutionary medicine. Recently he published Red Queen: How Stealth Infections Cause Cancers, Heart Disease and other Deadly Ailments.



## **CONFERENCE LOCATION, PARKING and MISC. INFORMATION**



**Organizer: Professor Mary Ann Cardani, Conference Organizer and Host, Department of Biology, 452 MSB, 303 E. Kearsley Street, University of Michigan - Flint, Flint, MI 48502. Email: [mcardani@flint.umich.edu](mailto:mcardani@flint.umich.edu), PHONE: (810) 762-3360 (Email preferred).**

**Meeting Location: The meeting will be held in the William S. White building on the campus of the University of Michigan - Flint. Visit [www.mi-asm.org](http://www.mi-asm.org) for directions.**

### **DRIVING DIRECTIONS & MAP TO THE UNIVERSITY OF MICHIGAN-FLINT**

**\*TRAVELING EAST FROM LANSING ON I-69.** Take I-69 to I-475 north to exit 8A (Longway Boulevard) which is approximately one mile from the I-475/I-69 interchange. After exiting I-475, turn left so as to be traveling west on Robert T. Longway Boulevard. Longway will change names to 5th avenue as it crosses the river. The UM-Flint North Riverfront campus ..(See Below).

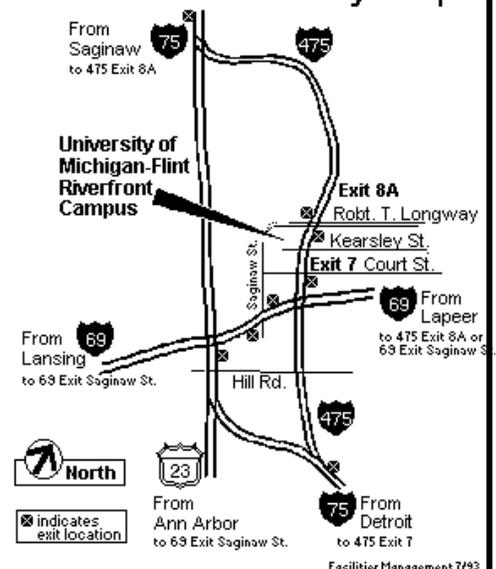
**\*TRAVELING NORTH FROM ANN ARBOR ON US-23.** Take US-23 north to I-69 east. Travel east on I-69 to I-475 north. Take I-475 north to exit 8A (Longway Blvd.) which is approximately one mile from the I-475/I-69 interchange. After exiting I-475, turn left so as to be traveling west on Robert T. Longway Boulevard. Longway will change names to 5th avenue as it crosses the river. The UM-Flint North Riverfront campus ..(See Below).

**\*TRAVELING NORTH FROM THE DETROIT AREA ON I-75.** Take I-75 north to I-475 north. Take I-475 seven miles north to exit 8A (Longway Boulevard) which is approximately one mile from the I-475/I-69 interchange. After exiting I-475, turn left so as to be traveling west on Robert T. Longway Boulevard. Longway will change names to 5th avenue as it crosses the river. The UM-Flint North Riverfront ..(See Below).

**\*TRAVELING SOUTH FROM GRAYLING ON I-75.** Take I-75 south to I-475 south. Take I-475 south approximately 9 miles. Get off I-475 at exit 8A (Longway Boulevard). After exiting I-475 you will be on Chavez Drive South. Turn right onto Longway Boulevard, so as to be traveling west on Robert T. Longway Boulevard. Longway will change names to 5<sup>th</sup> avenue as it crosses the river. The UM-Flint North Riverfront campus ..(See Below).

**COMMON TO ALL DIRECTIONS:** The UM-Flint North Riverfront campus will be on your left in about 1/2 mile. Look for a building, back off the road a ways, with a large white **M**. This is the **William S. White** building. Park in any of the parking lots nearby. (Note: Student only lots are available to the public on Saturdays.) (Note: If you pass by St. Michael s Church on your right you have gone too far).

### **Flint Area Freeway Map**



We thank the UM Annual Fund for their financial support of this meeting.



**Corporate Partners:** We thank all of our **Corporate Partners** for providing financial support for the Michigan ASM Branch.

The following companies will have exhibits and representatives at the meeting:

**Becton, Dickinson and Company (BD)**  
**DOT Scientific**  
**Giangerlo Scientific**

**Nalge/Nunc International**  
**Sigma-Aldrich**

A special "Thank You" to:

**Becton, Dickinson (BD)**, for sponsoring the Continental Breakfast.

**Pfizer Global R&D** for its consistent and substantial level of contribution

Members are encouraged to support our Corporate Partners.



**Global Research & Development**  
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Gary LaPorte  
800/955-9999#5521



Dr. Pamela S. Camey  
800/321-0855#3146



John D Errico  
800/246-4624



Shane VanWasshnova 800/521-1520#6181



Jan Petti 877/452-2345#9913

## **Notice of Proposed Changes to the Constitution of MI-ASM**

The Executive Board of the Michigan ASM has determined a need for clarification of, and changes to, certain Articles in our Constitution. The majority of the proposed changes support our application to the Internal Revenue Service for a tax-exempt 501 (c) (3) status. MI-ASM has had a 501 (c) (6) status since 1972. The new tax status would, among other things, give the Branch nonprofit mailing privileges and would assure any donors of the deductibility of their contributions. Further, this change would bring MI-ASM in line with the national American Society for Microbiology, which is also a 501 (c) (3) organization. Most of the new language includes the words and phrases that the IRS absolutely requires of a 501 (c) (3) entity.

The following sections of the Constitution of the Michigan ASM have the new language underlined; old language that is being deleted is ~~lined through~~.

We ask the members of MI-ASM to carefully read and consider these proposed changes in advance of a vote to adopt these changes. That vote will occur during the business luncheon at the fall meeting at University of Michigan-Flint on Saturday, 12 October 2002.

We are also posting the proposed changes on the Branch web page: <http://mi-asm.org>

Ralph J. Gorton, Past-President of MI-ASM ([RGorton@lcc.edu](mailto:RGorton@lcc.edu))

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**ARTICLE I** — The name and title of this organization shall be the Michigan Branch of the American Society for Microbiology, hereinafter referred to as the Branch.

### **ARTICLE II — OBJECTIVES**

The objectives of the Branch shall be:

1. to ~~encourage~~ promote scientific education and the dissemination of information and research ~~professional association~~ among microbiologists in the Michigan area;
2. to organize and operate exclusively for charitable, educational, and scientific purposes.
2. ~~to foster acquaintance and fellowship among the same;~~
3. to plan and conduct seminars, conferences, workshops, and lectures for the promotion of the scientific education of microbiologists and students of microbiology;
4. to cooperate with the American Society for Microbiology, neighboring branches, and allied organizations; and
5. to ~~stimulate~~ assist young microbiologists ~~toward~~ in their professional and educational growth and to encourage their participation in society activities.

The Branch has been formed exclusively for the aforementioned scientific and educational purposes, and no substantial part of the activities of the Branch shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the Branch shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office. Notwithstanding any other provision of these articles, the Branch shall not carry on any other activities not permitted to be carried on by an organization exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code, or the corresponding section of any future federal tax code.

### **ARTICLE III — MEMBERSHIP**

The membership of the Branch shall consist of ~~local~~ student members, regular members, emeritus members, and sustaining members elected in accordance with the By-Laws.

### **ARTICLE VI — FUNDS**

Administration of the funds of the Branch shall be entrusted to the Treasurer under the supervision of the Executive Committee. The Branch shall operate exclusively as a scientific and educational organization. No part of the net earnings of the Branch shall inure to the benefit of, or be distributable to its members, officers, or other private persons, except that the Branch shall be authorized and empowered to pay reasonable compensation for services rendered.

### **ARTICLE VII — AMENDMENTS**

This Constitution may be amended by the following procedure:

1. The proposed change(s) shall be discussed among the current members of the Executive Committee and submitted in writing to the Secretary, signed by the President and four ~~five~~ regular members.
2. The Secretary ~~shall include the proposed change with the notice of the next meeting of the Branch~~ will distribute the proposed change(s) to the membership for consideration, by one of two methods:
  - a. Electronically, via e-mail or the Branch Membership ListServ.
  - b. In the newsletter that announces the next meeting of the Branch.
3. ~~The proposed change shall be read and discussed at the next meeting of the Branch.~~

3. 4- Final action shall be taken at the next Branch meeting following the ~~meeting at which the proposed changes is read.~~ distribution of the proposed changes. The proposal will be read at that meeting and discussed. A two-thirds affirmative vote of the members present at this meeting shall be necessary for adoption.

No proposed change in conflict with the Constitution and By-Laws of the American Society for Microbiology may be considered.

#### **ARTICLE VIII — DISSOLUTION AND DISPOSITION OF ASSETS**

In the event of the termination and dissolution of the Michigan Branch of the ASM, the then-remaining assets would be distributed according to designation by the then Executive Committee to charitable, scientific, literary, or educational organizations ~~an organization or organizations~~ qualifying under Section 501(c)(3) ~~or 501(c)(6)~~ of the Internal Revenue Code of 1954, or the corresponding section of any future federal tax code.

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### **Poster Presentation Guidelines:**

The Michigan ASM encourages students (both undergrads and graduate students), as well as faculty and other professional microbiologists, to present posters at our fall and spring meetings. Ideally a poster presentation would relate to the general theme of the conference, but that is not a criterion for submission. If you would like to present a poster of your research at this MI-ASM CONFERENCE, follow the guidelines below.

- Students who present a poster do not pay the conference registration fee and they also receive one year free membership in MI-ASM. STUDENT ENTRIES will be judged by branch members and the winner of the "Best Student Poster" will receive a framed certificate, a copy of Dr. Philipp Gerhardt's classic text, and a free membership to the National ASM.
- Submit your name, college or university you attend, department affiliation, the full title of your poster, and a brief (200 words) abstract of its content to the conference organizer. **The deadline for submitting abstracts for posting on this website is October 10.** You may submit abstracts after this date, but they may not be posted prior to the conference.
- Use a Times Roman 12-pt. font, if possible. Type the title first then list the authors (all capital letters; use an asterisk to denote the person delivering the poster), then list institutions and short addresses. You may include e-mail addresses if you wish.
- Abbreviations that are generally understood are acceptable.
- Underline or italicize scientific names.
- Please submit the above by email to: **RGorton@lcc.edu**. **Send the information within the body of the e-mail message and not as an attached file.** You will receive electronic confirmation that your poster info arrived safely from cyberspace! Your poster abstract will automatically be forwarded to the Conference Organizer, Mary Ann Cardani (UM-Flint)
- If there is sufficient time, we will post early submitted abstracts on this meeting web site. All poster abstracts will be posted as part of the on-line post-conference summary.
- If you presented your poster at an ASM National Meeting or at another conference, please note that in your abstract submission.
- If you have any questions regarding posters, please contact **Professor Cardani**.  
Non-students may also submit posters; simply follow the above guidelines.



AMERICAN  
SOCIETY FOR  
MICROBIOLOGY

## **2002-2003 Michigan Branch ASM** **Officers and Executive Committee Members**



**President:** Judith Whittum-Hudson, Wayne State University

**President-Elect:** Michael D. Huband, Pfizer

**Past-President:** Ralph J. Gorton, Lansing Community College

**Secretary:** Jia Y. Liu, Pfizer

**Treasurer:** Jeffrey A. Hobden, Wayne State University

**Councilor:** Carl L. Pierson, University of Michigan

**Alternate Councilor:** James L. VandenBosch, Eastern Michigan University

**Education Chair:** Debra Piddington, Pfizer

**Corporate Liaison:** Michael A. Cohen, Pfizer

**Legislative & Regulatory Affairs:** Carl L. Pierson, University of Michigan

**Newsletter Editor:** Daniel L. Clemans, Eastern Michigan University

**Archive Representative:** Richard Bell

**Electronic Communications:** Ralph Gorton, Lansing Community College

Joyce A. Howard, Delta College

James L. VandenBosch, Eastern Michigan University

**Fall Meeting Organizer:** Mary Ann Cardani, University of Michigan - Flint

**Fellowship Programs in Microbiology**

**POSTDOCTORAL**

ASM/NCID POSTDOCTORAL RESEARCH ASSOCIATES PROGRAM:

ENCOURAGES POSTDOCTORAL SCIENTISTS TO CONDUCT RESEARCH

IN INFECTIOUS DISEASES, MEDICAL MICROBIOLOGY AND IMMUNOLOGY AT THE NATIONAL CENTER FOR INFECTIOUS DISEASES. THE FELLOWSHIP IS TWO YEARS. WEB ADDRESS: [HTTP://WWW.ASMUSA.ORG/EDUSRC/EDU23E.HTM](http://www.asmusa.org/edusrc/edu23e.htm)



**AMERICAN SOCIETY FOR MICROBIOLOGY**

**GRADUATE**

ROBERT D. WATKINS MINORITY GRADUATE FELLOWSHIP:

ENCOURAGES MINORITY GRADUATE STUDENTS TO CONDUCT RESEARCH IN MICROBIOLOGICAL SCIENCES. THE FELLOWSHIP IS FOR THREE YEARS. WEB ADDRESS: [HTTP://WWW.ASMUSA.ORG/EDUSRC/EDU23C.HTM](http://www.asmusa.org/edusrc/edu23c.htm)

**UNDERGRADUATE**

ASM UNDERGRADUATE RESEARCH FELLOWSHIP:

ENCOURAGES UNDERGRADUATE STUDENTS TO CONDUCT A RESEARCH PROJECT IN THE LABORATORIES OF ASM MEMBERS AT THEIR HOME INSTITUTION FOR A MINIMUM OF EIGHT WEEKS AND TO PRESENT THE RESEARCH FINDINGS AT THE ASM GENERAL MEETING. WEB ADDRESS: [HTTP://WWW.ASMUSA.ORG/EDUSRC/EDU23A.HTM](http://www.asmusa.org/edusrc/edu23a.htm)

**ASM MINORITY UNDERGRADUATE RESEARCH FELLOWSHIP**

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FOR MORE INFORMATION: E-MAIL: [fellowships-careerinformation@asmusa.org](mailto:fellowships-careerinformation@asmusa.org); CALL: (202) 942-9295 OR (202) 942-9283; FAX: (202) 942-9329

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**10<sup>th</sup> Anniversary**

**ASM's Undergraduate Microbiology Education Conference**

Biocomplexity

Rita Colwell

Director, National Science Foundation

Beyond the Human Genome Project

Eric D. Green

Chief, Genome Technology Branch and Director, NIH Intramural Sequencing Center, National Human Genome Research Institute - National Institutes of Health

The Scholarship of Teaching and Learning

Lee S. Shulman

President, The Carnegie Foundation for the Advancement of Teaching

Searching for Life On Earth and Off: Strategies for Life Detection

Kenneth H. Nealson

Wrigley Professor of Environmental Sciences, Department of Earth Sciences, University of California, San Diego

\*May 16-18, 2003\*

University of Maryland - College Park, MD  
Department of Cell Biology and Molecular Genetics

Travel Awards

for early career faculty and graduate students

<http://www.asmusa.org/edusrc/edu23i.htm>

Faculty Enhancement Awards

for non-ASM members to participate

<http://www.asmusa.org/edusrc/edu38b.htm>

For more information: <http://www.asmusa.org/edusrc/edu4c.htm> or Email EducationResources@asmusa.org  
For Further Announcements, Contact the National Office of the American Society for Microbiology, Please Visit [www.asmusa.org](http://www.asmusa.org)

**Daniel L. Clemans**  
**Newsletter Editor**  
**MI-ASM Branch**  
**c/o Department of Biology**  
**Eastern Michigan University**  
**316 Mark Jefferson**  
**Ypsilanti, MI 48197**