

THE SCOPE

A publication of the Michigan Branch of the American Society for Microbiology

Inside this Issue

- 1 President's Report
- 1 Corporate Partners
- 2 Fall Meeting Information
- 2 Hotels and Directions
- 3 Spring 2012 Awards
- 4 Elected Officers
- 4 Student Chapters
- 5 Spring 2013 Meeting
- 5 Student Info.
- 5 Finance Report
- 5 Videos Available

President's Report

Audra Swarthout

Our Fall Meeting is fast approaching! The Meeting, "Nanotechnology Applications to 21st Century Microbiology", will be held at Weber's Inn in Ann Arbor on October 26-27. We will kick off the meeting on Friday evening with an optional student mixer and reception at the Carlyle Grill. On Saturday we will hear from three keynote speakers, and we will have both poster and oral presentations from our student members. Students are encouraged to participate by presenting their research efforts. There will be awards for best undergraduate and graduate poster and best undergraduate and graduate oral presentation. Abstracts can be submitted at our website, www.mi-asm.org, and should be submitted early. As usual, our Corporate Partners will be present to answer questions and display new products; please visit and support them. We will also have our Branch business meeting on Saturday during lunch.

Our first presentation "Novel Nanoemulsions as Vaccine Adjuvants" will be given by Tarek Hamouda, MD, PhD, MBA, Director of Vaccine

Research, NanoBio Corp., Ann Arbor, MI. "Dr. Hamouda joined the University of Michigan in 1997 and led the team for the development of topical antimicrobial nanoemulsion

Continued on Page 3

Corporate Partners

BD Diagnostics
Corning
Coy Laboratory Prod.
Dot Scientific
EMD
Emergent
Fisher Scientific
Hardy Diagnostics
Innovative Solutions
Jade Scientific
Mager Scientific
Midwest Scientific
Morton Publishing
NSF International
Pall Life Sciences
Pfizer Animal Health
Promega
Remel
Sigma Aldrich
USA Scientific
Whatman

Nanotechnology Applications to 21st Century Microbiology

October 26-27, 2012, Weber's Inn, Ann Arbor, MI

Friday, October 26th

6:00 –8:00 pm Student Mixer/Reception

8:00 pm Board Dinner

Carlyle Grille
3660 Jackson Road
Ann Arbor, MI 48103(734) 213-9800

Saturday, October 27th

7:45-8:45 am Breakfast and Registration

Weber's Inn
3050 Jackson Road
Ann Arbor, MI 48103
(734) 794-2262

8:50 - 9:00 am Introduction and Welcome
Audra Swarthout, Branch President

9:00 - 10:00 am **Plenary Session 1**
Tarek Hamouda, M.D., Ph.D., M.B.A.
Director of Vaccine Research, NanoBio Corp., Ann Arbor
"Novel Nanoemulsions as vaccine adjuvants"

10:00 - 11:00 am Poster/Vendor viewing
Coffee break

11:00 - 12:00 pm **Student Speakers**
12:30 - 1:15 pm Lunch and Business Meeting

1:15 – 2:15 pm **Plenary Session 2**
Mark S. Smeltzer, Ph.D.
Departments of Microbiology and Immunology and Orthopaedics
University of Arkansas for Medical Sciences, Little Rock
**"Nanotechnology: a small solution to the big problem of
staphylococcal biofilm associated infection?"**

2:15-2:30 pm Student Award Presentations and
Board Announcements

2:30 – 3:30 pm **Plenary Session 3**
Alan P. Hudson, Ph.D.
Department of Immunology and Microbiology, Wayne State University
School of Medicine, Detroit
**"Dendrimers: tiny devices that provide a huge leap forward in chlamydia
research"**

3:30 pm Meeting adjourns

3:30 - 4:30 pm Board Meeting

More information for the meeting including directions and hotels, can be found online at <http://www.mi-asm.org/>
Planning Committee: Judith Whittum-Hudson, Alan P. Hudson, Michael Cohen and Jim VandenBosch

Continued from Page 1

under the direction of Dr. James R. Baker Jr. In 2001 he moved to NanoBio Corp. and continued his work to commercialize the nanoemulsions. In 2006 he switched to the development of nanoemulsion vaccine adjuvants for intranasal influenza vaccine. Currently, Dr. Hamouda manages the preclinical development of the nanoemulsion adjuvanted intranasal vaccine program. His current work is focused on RSV and genital herpes vaccines. Dr. Hamouda received his MD and PhD from the Faculty of Medicine, Cairo University and an MBA from Michigan State University."

Our second speaker, Dr. Mark Smeltzer, from the Departments of Microbiology and Immunology and Orthopaedics at the University of Arkansas for Medical Sciences, will speaking to us about "Nanotechnology: a small solution to the big problem of staphylococcal biofilm associated infection?". Dr. Smeltzer has been focusing on the pathogenesis of *S. aureus* infection since joining the laboratory of Dr. John J. Landolo at Kansas State University in 1990 as a post-doctoral research associate. In 1993 he joined the faculty of University of Arkansas for Medical Sciences (UAMS), where he began to focus on musculoskeletal infection, which in turn led to a specific

interest in biofilm as an important complicating factor in the successful treatment of such infections. He is currently investigating alternative therapeutic strategies that take advantage of the role of staphylococcal accessory regulator (*sarA*) as a therapeutic target.

The final presentation will be delivered by the Board's own Dr. Alan Hudson, Professor of Microbiology, Department of Immunology and Microbiology, Wayne State University School of Medicine. "Dr. Hudson received his undergraduate training in Biology and Chemistry at Hamilton College in 1971 and his Ph.D. in Biological Science (molecular genetics) from the City University of New York in 1978. He went on to postdoctoral training at the Universite Paris VII and Southwestern Medical School. He joined the faculty of the Department of Microbiology and Immunology of the Medical College of Pennsylvania (now Drexel University College of Medicine) in 1986, where he remained until his move to Wayne State University School of Medicine, Department of Immunology and Microbiology. He is currently Professor of Microbiology in that

Department. Dr. Hudson's primary scientific interest initially centered on the details of transcriptional control in the yeast *Saccharomyces cerevisiae*. For the last 20 years or so that focus has shifted to transcriptional and other details relating to host-pathogen interaction for the important human pathogens *Chlamydia trachomatis* and *C. pneumoniae*." Dr. Hudson will be speaking on "Dendrimers: tiny devices that provide a huge leap forward in chlamydia research".

This promises to be

Continued on page 5

Spring 2012 Awards

Best Poster

Mingxi Han, Central Michigan University, grad

Rachel Parent, Eastern Michigan University, grad

Alex Roll, Michigan Technological University, undergrad

Best Talk

Elizabeth Czerwinski, Central Michigan University, grad

Elected Officers

- PRESIDENT, Audra Swarthout**, Delta College, audraswarthout@delta.edu
- PRESIDENT- ELECT, Steve Gorsich**, Central Michigan University, gorsi1sw@cmich.edu
- PAST PRESIDENT, Joan B. Rose**, Michigan State University, rosejo@msu.edu
- SECRETARY, Jennifer Hess**, Aquinas College, hessjen@aquinas.edu
- TREASURER, John Geiser**, Western Michigan University, john.geiser@wmich.edu
- COUNCILOR, Susan Bagley**, Michigan Technological University, stbagley@mtu.edu
- ALTERNATE COUNCILOR, Joan B. Rose**, Michigan State University, rosejo@msu.edu

Appointed Officers

- EDUCATIONAL CHAIR, Kris Baumgarten**, KBaum11944@aol.com
- CORPORATE LIAISON, Michael A. Cohen**, mbcman@charter.net
- UNIVERSITY and COLLEGE LIAISON, Jeff L. Ram**, Wayne State University, jeffram@med.wayne.edu
- NEWSLETTER EDITOR, Jennifer Hess**, Aquinas College, hessjen@aquinas.edu
- WEBSITE MAINTENANCE, John Geiser**, Western Michigan University, john.geiser@wmich.edu
- ARCHIVE REPRESENTATIVE, Richard Bell**, Macomb Community College, bellr@macomb.edu
- COMMUNITY COLLEGE LIAISON, Audra Swarthout**, Delta College, audraswarthout@delta.edu

Board Members-at-large

- Kris Baumgarten**, Delta College, KBaum11944@aol.com
- Mary Ann Cardani**, UM-Flint (retired), mcardani@comcast.net
- Dan Clemans**, Eastern Michigan University, dclmans@emich.edu
- Ola Olapade**, Albion College, oolapade@albion.edu
- Britt Ranson Olson**, Lake Superior State University, branson@lssu.edu
- Silvia Rossbach**, Western Michigan University, Silvia.Rossbach@wmich.edu
- Michael Ryan**, Ferris State University, ryanm@ferris.edu
- Jim VandenBosch**, Eastern Michigan University, jim.vandenbosch@emich.edu
- Judith Whittum-Hudson**, Wayne State University, jhudson@med.wayne.edu
- Anne Spain**, Ferris State University, annespain@ferris.edu
- Michael Pressler**, Delta College, michaelpressler2@delta.edu
- Sonia Tiqua**, UM-Dearborn, smtiqua@umd.umich.edu

Student Chapters

Check them out online, <http://www.mi-asm.org>.
Most have links to their own websites.

- Central Michigan University
- Eastern Michigan University Microbiology Club
- Grand Valley State University Microbiology Club
- Michigan State University Microbiology Club
- Michigan Technological University Microbiology Club
- Tri-Cities Microbiology Club
- University of Michigan - Dearborn
- University of Michigan - Flint
- Wayne State University
- Western Michigan University

***** Student Chapters,
remember to apply for
funding to help defray
costs of attending
Meetings!**

Continued from page 3

another interesting and exciting meeting! Your attendance at these meetings is vital to the continued success of the Michigan Branch of the ASM. Please check our website, www.mi-asm.org, for registration and lodging information, and be sure to check out our new "early bird" registration option. We look forward to seeing you at the meeting.

Finally, a special thanks to the meeting planning committee, Judith Whittum-Hudson, Alan P. Hudson, Michael Cohen and Jim VandenBosch, your hard work is noted and appreciated!

Spring Meeting 2013

Jennifer Hess

Plans are in the works for our Spring 2013 meeting. The meeting will be at Ferris State University in Big Rapids. Be on the lookout for more information early in 2013!

Student Info.

John Geiser

Student Chapters

Currently the branch sponsors ten student

chapters. This makes us one of the most student-oriented branches that ASM has. The following Schools and Universities throughout the State have student chapters: Michigan Tech, Central Michigan, Western Michigan, Eastern Michigan, Michigan State, UM-Flint, UM-Dearborn, Wayne State, Delta College and Grand Valley State University. Student chapters are a great place to meet up with like-minded people. If you haven't already checked yours out, please do so; you will not regret it. No chapter at your school? Then maybe you are the one to begin a new chapter! Contact any board member to learn more about starting your chapter. We would be happy to work with you to make this a possibility.

Research and Travel awards

Through the generosity of Dr. Philipp Gerhardt and his wife Vera, the Michigan Branch of the American Society for Microbiology is able to provide substantial

**See you at
MI-ASM**

support for student research and travel. The Gerhardt Endowment is used to enhance the microbiology research training of undergraduate and early stage graduate students within the State of Michigan. Information for applying for funding can be found on the branch website, <http://www.mi-asm.org>.

We encourage all of our students to apply for these resources. Feel free to discuss it with any board member or your chapter advisor.

Finance Report

John Geiser

As of March 24, 2012, our bank account balance is \$17,967.88. We have two CD's that are currently collecting interest.

Videos from Past MI-ASM Meetings Available

Jen Hess

All videos of past meetings have been uploaded to our website. To access each video, you will need to use the following password combinations: "MI-ASM

Semester Year". For example, the past spring password would be "MI-ASM Spring 2012".