

Conference Location & Accommodation:

Conference Location:

Ralph Regula Conference Center, on the campus of Northeastern Ohio Universities Colleges of Medicine and Pharmacy, located at 4209 State Route 44, Rootstown, OH 44272.

Accommodation Location:

Comfort Inn and Suites, 4423 State Route 43, Kent, OH, 44240. Please call 330-673-1888 or fax 330-678-2695 for information or to make reservations.

A block of rooms for the night of October 21, 2009, has been reserved at the Comfort Inn and Suites until October 16, 2009. To reserve your room, please call the hotel direct and identify yourself as being with the Heal Ohio 2009 Conference. A special room rate of \$79.99 will apply.

Registration & Cancellation

Pre-registrations only are accepted by telephone, mail, and fax or online until 5 p.m., October 9, 2009. If cancellation is required, a full refund will be made if cancelled by October 15, 2009. After October 15, 2009, a \$25 cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund. NO REFUNDS WILL BE ISSUED AFTER October 19, 2009.

Fees

The cost for Heal Ohio 2009 is \$150 per attendee. A limited number of student and resident admissions are available at \$25 per person on a first-come, first-served basis. A copy of student ID is required to receive student rates.

Accreditation

This activity has been planned and implemented in accordance with the Policies of the Accreditation Council for Continuing Medical Education (ACCME) and/or the Accreditation Council for Pharmacy Education (ACPE); through the joint sponsorship of Northeastern Ohio Universities Colleges of Medicine and Pharmacy; and Akron General Health System. Northeastern Ohio Universities Colleges of Medicine and Pharmacy is accredited by the ACCME and the ACPE to provide continuing education.

Northeastern Ohio Universities Colleges of Medicine and Pharmacy designates this educational activity for a maximum of 7.75 AMA PRA Category 1 Credits*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nurses may use AMA PRA Category 1 Credits* for licensure renewal.

Disclosure of Conflict of Interest

ACCME guidelines require all planners, reviewers and speakers to complete a disclosure form indicating if they have any relevant financial relationships with any 'commercial interest'. A 'commercial interest' is any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients.

Contact Information

For questions please contact Robert Anthony, Conference Facilitator, at 330-344-6830, agjeg@agmc.org, or Julie Embick at the Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Department of Continuing Professional Development at 330-325-6575, jae@neucom.edu. Updated information will also be posted on the Heal Ohio web site at www.akrongeneral.org/healohio.

Conference Collaboration Opportunities and Acknowledgements

City of Akron

The City of Akron is hereby recognized as the *Heal Ohio 2009: Showcasing Emerging Wound Care Technologies & Treatments Conference Partner*. Their generous support is most appreciated.



Opportunities

Please contact Julie Embick at the Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Department of Continuing Professional Development at 330-325-6575, jae@neucom.edu, regarding details and availability to support the conference in one or more of the following categories.

- *Morning Partner - Summa Health System*
- *Afternoon Partner - Akron General Medical Center*
- *Breakfast & Poster Session Patron @ \$2500*
- *Luncheon Patron @ \$2500*
- *Reception Patron @ \$2500*
- *Track Supporters @ \$1500 (limit 3)*
- *Exhibitors Booth Fee @ \$500 (limit 25)*

Acknowledgements



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AKRON GENERAL



Heal Ohio

Showcasing Emerging Wound Care Technologies and Treatments

October 22, 2009 • 7 a.m. – 5 p.m.

Ralph Regula Conference Center
Northeastern Ohio Universities Colleges of Medicine and Pharmacy
4209 State Route 44, Rootstown, OH 44272



A one-day multidisciplinary conference sponsored by Northeastern Ohio Universities Colleges of Medicine and Pharmacy and Akron General and hosted by the Northeastern Ohio Consortium for Wound Healing Research and Education.

www.akrongeneral.org/healohio



Northeastern Ohio Universities
COLLEGES OF MEDICINE & PHARMACY

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The Choice You Can Believe In.

About the Conference

Heal Ohio 2009: Showcasing Emerging Wound Care Technologies & Treatments, October 22, 2009, is a one-day multidisciplinary scientific conference sponsored by the Northeastern Ohio Universities Colleges of Medicine and Pharmacy and Akron General Medical Center and hosted by the Northeastern Ohio Consortium for Wound Healing Research and Education. The vision of this second annual state-wide event is to build on the success of last year's conference to foster an innovative, collaborative, educational and team-building event that combines advanced basic science research, evidence and best practice-based clinical treatment protocols with community focused strategies. By leveraging scientific expertise, commercial opportunity and resources, the conference will continue to focus on the development of the Heal Ohio Collaborative™ as a model to help address Ohio's wound care crisis for the benefit of the patient and all stakeholders. **The objectives of the conference are to provide attendees an advanced educational experience with a morning session devoted to a comprehensive course on wound healing basics and science. The afternoon session will provide information on emerging wound healing science, technology and treatments in a track format. In addition, we wish to provide the continued opportunity to actively participate in the development of the state-wide Heal Ohio Collaborative™.** In addition, on October 23, attendees will have the opportunity to stay following the Conference for an informal day of networking and golf at the Firestone County Club.

Northeastern Ohio Consortium for Wound Healing Research & Education

Leveraging the historical core competencies residing in our regional universities, hospitals and medical school, the Northeastern Ohio Consortium for Wound Healing Research and Education (CWHRE) was conceptualized in 1997 and formalized in 2002. The goals of this multi-disciplinary group of basic scientists, clinicians and business professionals are:

- to understand and solve real-life problems in wound healing through **collaborative research** activities;
- to further develop translational "bench to bedside" commercial opportunities to **improve patient care**;
- to embrace outreach wound care programs to help **educate** the community at large.

Resources include an array of high-tech specialty laboratories, small and large animal model facilities and clinical locations providing treatment in wound care, burns and rehabilitative medicine. CWHRE is the driving force in the development and implementation of the Heal Ohio Collaborative™. The goal of the

Collaborative is to create a state-wide wound care infrastructure that will have a short-term, high-impact likelihood of enabling economic growth, advancement in research and development, public health education and cost-effective health care delivery. For more information please write Chairperson Judith Fulton, PhD, Calhoun Research Laboratory, Akron General Medical Center, 400 Wabash Avenue, Akron, OH, 44307. You may also contact Judy through email or telephone jfulton@agmc.org, 330-344-6394.

Founding Members



Supportive Members



Who Should Attend

Innovative Researchers, Clinicians, Nurses, Corporate R&D Managers, Entrepreneurs, Consultants and Investors interested in wound care research and commercialization.

Educational Content

Attendees will be exposed to state-of-the-art presentations in a wide variety of wound care topic areas.

- A Comprehensive Morning Course on Wound Healing Basics & Science
- Afternoon Emerging Wound Healing Science Track
- Afternoon Emerging Wound Care Technologies Track
- Afternoon Emerging Wound Care Treatments Track

The keynote address will provide timely information on the management of wound tissue oxygen. Other presentations will focus on gaps in the current wound care educational process and the Heal Ohio Collaborative™ initiative in Ohio.

Faculty & Contributors

Please continue to check the Heal Ohio Web site at www.akrongeneral.org/healohio for updates to this list.

David Andrews, MD, Chair, Department of Surgery and Medical Director, Burn Unit, Akron Children's Hospital, Akron, OH, and Clinical Professor, Pediatric Surgery, Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Rootstown, OH

Robert Anthony, MS, MBA, President, REA Inc. and Manager, Technology Transfer, Commercialization and Innovation Office, Akron General Medical Center, Akron, OH

Rahul Aras, PhD, CEO & President, Juventas Therapeutics, Cleveland, OH

Nancy Beinlich, BSN, RN, Director, Wound Center, Akron General Medical Center, Akron, OH

Robert Bowman, Deputy Mayor for Economic Development, City of Akron, Akron, OH

Shauna Brummet, PhD, COO, Fluence Therapeutics, Inc., Wadsworth, OH

Debashish Chakravarthy, PhD, Director, New Technology, Medline Industries, Mundelein, IL

James Ferrell, BS, Graduate student, Biological Sciences, Kent State University, Kent, OH

Judith Fulton, PhD, Senior Research Scientist, Biochemistry, Kenneth Calhoun Research Laboratory, Akron General Medical Center, Akron, OH, and Chair, Northeastern Ohio Consortium for Wound Healing Research and Education

Timothy Ganey, PhD, Director, Orthopaedic Research, Atlanta Medical Center, Atlanta, GA

Valentina Goutorova, MD, Head of International Operations, 5iTech and Sterionics, Cleveland, OH

Debra Grega, PhD, Executive Director, National Center for Regenerative Medicine, Case Western Reserve University, Cleveland, OH

Walter E. Horton Jr., PhD, Vice President for Research, Associate Dean for Graduate Studies and Professor of Anatomy, Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Rootstown, OH

S. Kwon Lee, MD, FACS, FACCSW, Partner, Northeast Surgical Associates of Ohio, Elyria, OH

Kurt Lu, MD, Assistant Professor, Dermatology, Case Western Reserve University College of Medicine, Cleveland, OH

William Lynch, PhD, Associate Professor, Molecular Virology & Neuroscience, Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Rootstown, OH

Gerald Mearini, PhD, President, Teraphysics, Cleveland, OH

Gary Meszaros, PhD, Associate Professor, Physiology and Pharmacology, Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Rootstown, OH

Eliot Mostow, MD, MPH, Professor and Chair, Dermatology, Northeastern Ohio Universities Colleges of Medicine & Pharmacy, Rootstown, OH, and Associate Professor, Clinical Dermatology, Case Western Reserve University College of Medicine, Cleveland, OH

Lois Nora, MD, JD, President and Dean College of Medicine, Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Rootstown, OH

Gerard Nuova, MD, Professor of Pathology, Ohio State University and CMO, Phylogeny, Inc, Columbus, OH

John Ogden, MD, Medical Advisor, Tissue Regeneration Technologies, Woodstock, GA

James Ohneck, BS, Laser Light Healing, Inc. and Director, Sales & Marketing, Valtronic Technologies, Solon, OH

David Peter, MD, Chief Medical Officer, Clinical Resources & Research, Akron General Medical Center, Akron, OH

Helen Piontkivska, PhD, Assistant Professor, Biological Sciences, Kent State University, Kent, OH

Stan Prybyla, PhD, Scientist, Consultant, Breakthrough Technology Development, Brecksville, OH

Michael Reed, PharmD, Director, Division of Clinical Pharmacology/ Toxicology and Clinical Research, Akron Children's Hospital, Akron, OH and Professor, Pediatrics, Northeastern Ohio Universities Colleges of Medicine & Pharmacy, Rootstown, OH

Sarang Sarangapani, PhD, President, Ogenix Corp., Norwood, MA

Steven Schmidt, PhD, System Director of Research & Interim Director of the Division of Surgical Research, Medline Health System, Akron, OH

Chandan Sen, PhD, FACS, FACSM, Professor and Vice Chairman, Surgery; Director, Comprehensive Wound Center; Associate Dean, Translational & Applied Research, The Ohio State University Medical Center, Columbus, OH

Clint Snyder, PhD, Associate Dean, Health Professions Education, Northeastern Ohio Universities Colleges of Medicine & Pharmacy, Rootstown, OH

Elizabeth Sump, Executive Director, Clinical Tissue Engineering Center, Cleveland Clinic, Cleveland, OH

Amy Tucker, MD, Medical Director, Wound Center, Akron General Medical Center, Akron, OH

Gabriela Voskerician, PhD, Director, Research & Development, Proxy Biomedical Ltd., Spiddal, Ireland

Chris Woolverton, PhD, Professor, Biological Sciences and Director, Center for Public Health Preparedness, Kent State University, Kent, OH

Ronald Xu, PhD, Assistant Professor, Biomedical Engineering Department, The Ohio State University, Columbus, OH

Agenda

Heal Ohio 2009: Showcasing Emerging Wound Care Technologies & Treatments features nationally recognized faculty with a focus on Ohio. The day includes a morning course on wound healing science basics and a key-note address followed by three afternoon tracks on emerging wound healing science, technologies and treatments. The morning and afternoon symposium style sessions provide for interactive content and discussion between basic scientists, clinicians and technology commercialization specialists around a central theme topic. A limited number of posters and vendor exhibits will be displayed throughout the day. Breakfast, lunch and a networking reception following the conference and a golf outing the next day at Firestone Country Club provide important time to develop new collaborations.

Program At a Glance

DAY ONE – Northeastern Ohio Universities College of Medicine and Pharmacy, Ralph Regula Conference Center, 4209 State Route 44, Rootstown, OH 44272

7 - 8 a.m. Open Registration & Continental Breakfast, Poster Session, Networking & Exhibits Open

8 - 8:15 a.m. **Introductions and Welcome** - David Peter, MD, Walter Horton, PhD, Lois Nora, MD, JD, Robert Bowman, Deputy Mayor, City of Akron

8:15 - 9:15 a.m. **Keynote Address** –“The Need to Manage Wound Tissue Oxygen in Preparing to Heal” - Chandan Sen, PhD, Associate Dean, Professor and Vice-Chairman, Director of The Ohio State University Comprehensive Wound Center

Morning Session: *A Comprehensive Course on Wound Healing Basics & Science*

9:15 - 9:45 a.m. *Overview of Wound Healing Process* - Judith Fulton, PhD

9:45 -10 a.m. **Morning Break** (Exhibits & Poster Session Open)

10 - 10:20 a.m. *Extracellular Matrix and Myofibroblasts* - Gary Meszaros, PhD

10:20 - 10:40 a.m. *Angiogenesis* - Steven Schmidt, PhD

10:40 - 11 a.m. *Neurogenesis* - William Lynch, PhD

11 - 11:20 a.m. *Macrophages, Growth Factors & Cytokines* - Kurt Lu, MD

11:20 - 11:40 a.m. *Infection and Inflammatory Response* - Chris Woolverton, PhD

11:40 a.m. - Noon *Burns (Extra Considerations)* - David Andrews, MD and Michael Reed, PharmD

Noon - 12:15 p.m. *Panel Q&A*

12:15 - 1 p.m. **Light Lunch** (Exhibits & Poster Session Open, Networking)

1 - 1:30 p.m. *Crash Course in Diagnosis & Treatment (What You Did Not Learn in School)* – Eliot Mostow, MD

Afternoon Session: Tracks 1, 2, & 3

1:30 - 2:30 p.m. Speakers #1, #2 & #3

Track 1 - Emerging Science

#1: *Bioinformatics in Wound Care* - Helen Piontkivska, PhD

#2: *Nano-particles for Clinical Applications* - Timothy Ganey, PhD, and Stan Prybyla, PhD

#3: *Introducing Wound Care in Today's Curriculum* - Clint Snyder, PhD

Track 2 - Emerging Technologies

#1: *The Use of IR Lasers in Wound Healing* - James Ohneck, BS

#2: *Cold Plasma for Infected Wounds* - James Ferrell, BS and Valentina Goutorova, MD

#3: *Emerging Diagnostic & Therapeutic Applications of THz Technologies* - Gerald Mearini, PhD

Track 3 - Emerging Treatments

#1: *Regenerative Therapies* - Rahul Aras, PhD

#2: *New Developments in Wound Care* - Debashish Chakravarthy, PhD

#3: *Foot Case Study* - Nancy Beinlich, BSN, RN and Amy Tucker, MD

Track 3 - Emerging Treatments

#4: *Clinical Relevance of Advanced Wound Healing Products* - Kwon Lee, MD

#5: *Healing of War Wounds with Shock Waves* - John Ogden, MD

#6: TBD

4 - 4:15 p.m. *Panel Tracks Q&A*

4:15 - 4:30 p.m. *Update Heal Ohio Collaborative* - Robert Anthony, MS, MBA

4:30 - 5 p.m. General Session/Evaluations/ Awards

5 - 6 p.m. **Reception** (Exhibits & Poster Session Open, Networking)

DAY TWO – Golf Outing at Firestone Country Club, 452 East Warner Road, Akron, OH 44319

Extra networking opportunity... play the world famous Firestone Country Club North golf course and enjoy the beautiful fall colors!

Individual tee times are available starting at 8:30 a.m. for Heal Ohio 2009 Conference attendees. Food and golf package discounted price at \$128.50 per person. Onsite condo accommodations the night of October 22 are also available for \$95.00 per person.

Golf reservations must accompany the Heal Ohio 2009 Conference Registration Form and be received no later than October 9, 2009.

Call for Abstracts & Poster Competition

We invite professionals and students in any field related to the study, prevention and treatment or the development of wound care biosciences to join the Heal Ohio 2009 Poster Competition.

Poster Competition Awards

Three awards (\$75 Barnes & Noble gift certificates) will be announced during the afternoon session.

- Best basic science
- Best clinical or translational
- Best presentation of information

Acceptance Process

Submit an abstract (300 words or less) of original investigation no later than October 2, 2009 to either Poster Committee Co-Chairman Professor Lu-Kwang Ju ju@uakron.edu or Professor Lingyun Liu liu@uakron.edu. Please submit abstracts as a Microsoft Word document using no smaller than 12-pt font size. Please be sure to include the title of the abstract and contact information for all authors. Submitters of accepted posters will be notified by October 9, 2009, and receive admission to the conference at no charge. It is expected that one author will be in attendance for each poster that is accepted for the conference.

Institutional Approval
APPLICANTS ARE STRONGLY DISCOURAGED FROM INCLUDING ANY INFORMATION THAT MAY QUALIFY AS INTELLECTUAL PROPERTY (IP) IN SUBMITTED ABSTRACTS, POSTERS, OR PRESENTATIONS. PLEASE CONTACT YOUR APPROPRIATE INSTITUTIONAL OFFICIAL FOR APPROVAL AND ALLOW SUFFICIENT TIME FOR ANY IP TO BE PROTECTED.

Poster Requirements
A 36-inch wide by 48-inch tall space will be permitted for each poster. The mounting surface will be suitable for push-pins. Accepted poster titles will be published in the syllabus.

Registration Form

Heal Ohio 2009: Showcasing Emerging Wound Care Technologies & Treatments may register by mail, telephone, fax or email.

Your conference registration fee includes syllabus materials, continental breakfast, refreshment breaks and lunch; admission to the reception and poster sessions; and attendance at all of the general and track sessions of your choice.

Golf and lodging at the Firestone Country Club require a separate fee and registration. (see below)

Please complete the information below.
PLEASE PRINT

Last Name	First Name	MI	Degree
Title	Institution Name		Specialty
Address			
City			
State		Zip	
Phone	Email	Fax	

____ Yes, I will attend the Heal Ohio 2009 Conference for \$150

____ Yes, I will attend as a student for \$25

____ Yes, I will play golf on October 23 for \$128.50

____ Yes, I will spend the night of October 22 at FCC for \$95

Fees

Conference Fees – The cost of for Heal Ohio 2009 is \$150 per attendee. A limited number of student and resident admissions are available at \$25 per person on a first-come, first-served basis. A copy of student ID is required to receive student rates.

Golf Fees – Extra Networking Opportunity... play the world famous Firestone Country Club North golf course and enjoy the beautiful fall colors on October 23, 2009! Individual tee times are available starting at 8:30 a.m. for Heal Ohio Conference attendees. Food and golf package discounted price as \$128.50 per person. Onsite condo accommodations the night of October 22 are also available for \$95 per person.

TOTAL AMOUNT ENCLOSED OR TO BE CHARGED: \$ _____

Make check payable to Northeastern Ohio Universities Colleges of Medicine and Pharmacy

- or - charge the following account: ____ Visa ____ MasterCard ____ Amex ____ Discover
PLEASE PRINT

Name on Credit Card _____

Card Number _____ Expiration Date _____ Digit V-code on card _____

Signature (not valid without signature) _____

Billing Address (if different from above) _____

City _____ State _____ Zip _____

MAILING ADDRESS: Heal Ohio 2009
Northeastern Ohio Universities Colleges of Medicine and Pharmacy
Continuing Professional Development
4209 State Route 44, P.O. Box 95, Rootstown, Ohio 44272

Attn: Julie Embick
Phone: 330-325-6575
Fax: 330-325-5929
Email: jae@neoucom.edu