Eleventh Annual Nemacolin International Asthma Conference
An Interactive Forum on Patient Care, Therapy and Research

Friday through Sunday, October 28-30, 2016
Nemacolin Woodlands Conference Center
Farmington, Pennsylvania

SPONSORED BY
Department of Medicine
Division of Allergy, Asthma and Immunology
Allegheny General Hospital
Allegheny Health Network
Pittsburgh, Pennsylvania

Allegheny Health Network
Allegheny General Hospital
Conference Overview
Despite significant advances in our understanding of the pathophysiology and treatment of asthma, and the availability of national and international guidelines on the diagnosis and treatment of asthma, recent surveys show that asthma control and morbidity have not improved. Research is being conducted to address many of these issues. This conference will bring the latest research developments in this rapidly changing field to health care professionals practicing, researching and teaching asthma care.

Asthma exists in diverse environments and populations and varies in severity by time and patient. Moreover, based on the results of recent research, asthma is being viewed less as a disease and more as a syndrome with multiple phenotypes and endotypes. The resultant heterogeneity forms the basis for the education and discussion embedded in the Nemacolin International Asthma Conference, which takes pride in being one of the only conferences in the world dedicated exclusively to asthma. Its purpose is to create a highly-interactive educational environment, including the world’s best asthma researchers, teachers, and clinicians, to critique cutting-edge research and translate key research findings into clinical pearls that will benefit patients with asthma.

Intended Audience and Objectives
This conference is intended for primary care physicians, pediatricians, pulmonologists, allergists, physician assistants, nurse practitioners, ENTs and asthma specialists.

At the conclusion, participants should have the ability to:
• Explore the prenatal and postnatal origins of asthma.
• Examine the small airway pathology in asthma versus other lung diseases.
• Review small airway physiology and treatment.
• Update steroid safety in children and adults with asthma.
• Discuss the mechanisms and treatment of chronic cough in asthma and chronic rhinosinusitis.
• Examine the gut and lung microbiome related to asthma.
• Review the science of adherence in asthma treatment.
• Update the relationship between allergy and asthma.

Intended Outcome
To positively impact the morbidity and cost of asthma by providing health care practitioners with recommendations on the care of patients with asthma that are based on the most up-to-date research conducted by the world’s leading asthma experts.
Conference Co-Founders

Deborah Gentile, MD  
Associate Professor of Medicine  
Temple University School of Medicine  
Director of Research  
Division of Allergy, Asthma and Immunology  
Allegheny Health Network  
Pittsburgh, Pennsylvania

Paul O’Byrne, MB, FRCP(C), FRSC  
Dean and Vice President,  
Faculty of Health Sciences,  
Michael G DeGroote School of Medicine,  
McMaster University  
Hamilton, Ontario, Canada

Giovanni Piedimonte, MD, FAAP, FCCP  
Professor & Chair, Cleveland Clinic Pediatric Institute  
Physician-in-Chief, Cleveland Clinic Children’s Hospital  
President, Cleveland Clinic Children’s Hospital for Rehabilitation  
The Cleveland Clinic  
Cleveland, Ohio

David P. Skoner, MD  
Professor of Pediatrics,  
Director, Division of Allergy and Immunology  
West Virginia University School of Medicine  
Morgantown, West Virginia

Sally E. Wenzel, MD  
Professor of Medicine  
Director, University of Pittsburgh Asthma Institute @ UPMC/UPSSOM  
Subsection Chief of Allergy Pulmonary, Allergy and Critical Care Medicine  
Pittsburgh, Pennsylvania

Fellows Program Director

Reynold A. Panettieri Jr., MD  
Professor of Medicine, Robert Wood Johnson Medical School  
Vice Chancellor, Clinical & Translational Science  
Director, Rutgers Institute for Translational Medicine & Science  
Emeritus Professor of Medicine, University of Pennsylvania  
Philadelphia, Pennsylvania

Chief Discussant

Thomas A. E. Platts-Mills, MD, PhD, FRS  
Oscar Swineford Jr Professor of Medicine  
Head, Asthma and Allergic Diseases Center  
University of Virginia  
Charlottesville, Virginia

Symposium Chair

Jay K. Kolls, MD  
Director, Richard King Mellon Foundation Institute for Pediatric Research  
Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Vice Chair for Translational Research  
Department of Pediatrics  
Children’s Hospital of Pittsburgh of UPMC  
Pittsburgh, Pennsylvania

Faculty

Maria G. Belvisi BSc, PhD FBPhS, FERS  
Head, Respiratory Pharmacology Group,  
Pharmacology and Toxicology Section, NHLI  
Imperial College London  
London, United Kingdom

Sergejs Berdnikovs, PhD  
Research Assistant Professor of Medicine  
Division of Allergy and Immunology  
Northwestern University Feinberg School of Medicine  
Chicago, Illinois

Tyra Bryant-Stephens, MD  
Director and Founder, The Community Asthma Prevention Program  
The Children’s Hospital of Philadelphia  
Professor of Pediatrics  
The Perelman School of Medicine at the University of Pennsylvania  
Philadelphia, Pennsylvania

Leonardo M. Fabbri, MD, FERS  
Professor of Medicine  
Department of Metabolic Medicine  
University of Modena & Reggio Emilia  
Sant’Agostino Estense Hospital  
Modena, Italy
Faculty (cont.)

**Fernando Holguin, MD, MPH**
- Associate Professor
- Pulmonary Sciences
- University of Colorado
- Boulder, Colorado

**Christine Johnson, PhD, MPH**
- Senior Staff Epidemiologist
- Department Chair
- Department of Public Health Sciences
- Henry Ford Hospital and Health System
- Detroit, Michigan

**Alison Morris, MD, MS**
- Professor of Medicine
- Vice Chair for Clinical Research, Department of Medicine UPMC
- Chair of Translational Pulmonary and Critical Care Medicine
- Director, University of Pittsburgh Center for Medicine and the Microbiome
- University of Pittsburgh School of Medicine
- Pittsburgh, Pennsylvania

**Dennis R. Ownby, MD**
- Professor of Pediatrics
- Augusta University
- Augusta, Georgia

**Robert Schleimer, PhD**
- The Roy and Elaine Patterson Professor
- Chief, Allergy-Immunology
- Northwestern Feinberg School of Medicine
- Chicago, Illinois

**Donata Vercelli, MD**
- Professor of Cellular and Molecular Medicine
- Director, Arizona Center for the Biology of Complex Diseases
- Associate Director, Asthma and Airway Disease Research Center
- University of Arizona
- Tucson, Arizona

**Andrew G. Weinstein MD**
- Associate Clinical Professor Pediatrics
- Sidney Kimmel Medical College-Thomas Jefferson University
- President, Asthma Management Systems LLC
- Philadelphia, Pennsylvania

**Samuel Yousem, MD**
- Vice Chairman of Anatomic Pathology Services
- Director of the Division of Anatomic Pathology, Co-Director of the Community Pathology Division
- UPMC
- Pittsburgh, Pennsylvania

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**In accordance with the Accreditation Council for Continuing Medical Education (ACCME) and the policy of Allegheny General Hospital, presenters must disclose all relevant financial relationships, which in the context of their presentation(s), could be perceived as a real or apparent conflict of interest, (e.g., ownership of stock, honoraria or consulting fees). Any identifiable conflicts will be resolved prior to the activity. Any such relationships will be disclosed to the learner prior to the presentation(s).**
## 11th Annual Nemacolin International Asthma Conference
### Friday, October 28, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.</td>
<td>Registration/Continental Breakfast (Visit Exhibits)</td>
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<tr>
<td>8:45 a.m.</td>
<td>Welcome Remarks</td>
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<tr>
<td></td>
<td><strong>David P. Skoner, MD</strong></td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Update on Corticosteroid Safety in Children</td>
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<tr>
<td></td>
<td><strong>David P. Skoner, MD</strong></td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Precision severe asthma management: The How, When and Where?</td>
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<td></td>
<td><strong>Reynold A. Panettieri, Jr., MD</strong></td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Discussion Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</td>
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<tr>
<td>10:20 a.m.</td>
<td>Fellows Abstract Presentations</td>
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<tr>
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<td><strong>Moderators, Reynold A. Panettieri Jr., MD, Director of Conference Fellows Program</strong></td>
</tr>
<tr>
<td>11:20 a.m.</td>
<td>Break and Refreshments (Visit Exhibits)</td>
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</tbody>
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### Symposium on Origins of Asthma
**Symposium Chair: Giovanni Piedimonte, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:35 a.m.</td>
<td>Philip Fireman, MD Lecture</td>
</tr>
<tr>
<td></td>
<td>Epigenetic mechanisms of asthma inception</td>
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<tr>
<td></td>
<td><strong>Donata Vercelli, MD</strong></td>
</tr>
<tr>
<td>11:55 a.m.</td>
<td>Fetal programming by viruses</td>
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<tr>
<td></td>
<td><strong>Giovanni Piedimonte, MD</strong></td>
</tr>
<tr>
<td>12:15 p.m.</td>
<td>Discussion Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</td>
</tr>
<tr>
<td>12:35 p.m.</td>
<td>Industry sponsored lunch or lunch on your own (Not for credit)</td>
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<tr>
<td>1:35 p.m.</td>
<td>Systems biology of asthma</td>
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<tr>
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<td><strong>Sergejs Berdnikovs, PhD</strong></td>
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<tr>
<td>1:55 p.m.</td>
<td>PRO/CON Debate</td>
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<tr>
<td></td>
<td>Environmental Allergens are the Major Cause of Childhood Asthma</td>
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<td></td>
<td><strong>PRO: Dennis Ownby, MD</strong></td>
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<tr>
<td></td>
<td><strong>CON: Giovanni Piedimonte, MD</strong></td>
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<tr>
<td>2:40 p.m.</td>
<td>Adjournment</td>
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</tbody>
</table>
### 11th Annual Nемacolin International Asthma Conference

**Saturday, October 29, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m.</td>
<td>Optional Industry Lecture and Breakfast</td>
</tr>
<tr>
<td>8:00 a.m.</td>
<td>Registration/Continental Breakfast (Visit Exhibits)</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Opening Remarks</td>
</tr>
<tr>
<td></td>
<td><strong>David P. Skoner, MD</strong></td>
</tr>
<tr>
<td>8:45 a.m.</td>
<td>Opening Remarks and Introductions</td>
</tr>
<tr>
<td></td>
<td><strong>Sally E. Wenzel, MD &amp; Paul O’Byrne, MB, FRCP(C), FRSC</strong></td>
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</tbody>
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**Symposium on Small Airways**

**Symposium Chair: Sally Wenzel, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 a.m.</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td><strong>Leonard M. Fabbri, MD, FERS</strong></td>
</tr>
<tr>
<td>9:20 a.m.</td>
<td>Gilbert Friday Memorial Lecture</td>
</tr>
<tr>
<td></td>
<td>Reduced FEF25-75 in asthma. What does it mean and what are the</td>
</tr>
<tr>
<td></td>
<td>clinical implications?</td>
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<tr>
<td></td>
<td><strong>Fernando Holguin, MD</strong></td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Keynote Lecture</td>
</tr>
<tr>
<td></td>
<td>Pathologic Approach to Small Airways Disease</td>
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<tr>
<td></td>
<td><strong>Samuel Yousem, MD</strong></td>
</tr>
<tr>
<td>10:40 a.m.</td>
<td>Discussion <strong>Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</strong></td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>Break (Visit Exhibits)</td>
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</table>

**Symposium on Chronic Cough**

**Symposium Chair: Paul O’Byrne, MB, FRCP(C), FRSC**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:20 a.m.</td>
<td>Chronic Cough in Asthma</td>
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<tr>
<td></td>
<td><strong>Jaclyn Smith, FRCP, PhD</strong></td>
</tr>
<tr>
<td>11:40 a.m.</td>
<td>Mechanisms of Chronic Cough</td>
</tr>
<tr>
<td></td>
<td><strong>Maria G. Belvisi, BSc, PhD, FBPhS, FERS</strong></td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Mechanisms of Pathogenesis of Chronic Rhinosinusitis</td>
</tr>
<tr>
<td></td>
<td><strong>Robert P Schleimer, MD</strong></td>
</tr>
<tr>
<td>12:20 p.m.</td>
<td>Discussion <strong>Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</strong></td>
</tr>
<tr>
<td>12:40 p.m.</td>
<td>Industry sponsored lunch or lunch on your own (Not for credit)</td>
</tr>
<tr>
<td>1:40 p.m.</td>
<td>PRO/CON Debate</td>
</tr>
<tr>
<td></td>
<td>Animal Models are Required for the Development of New Drugs for Asthma</td>
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<tr>
<td></td>
<td><strong>CON: Sally Wenzel, MD</strong></td>
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</table>
Saturday, October 29, 2016 (cont.)

**Symposium on the Science of Adherence**  
**Symposium Chair: Deborah Gentile, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>2:25 p.m.</td>
<td>Impact of Health Literacy and Socioeconomic Status on Asthma Disparities</td>
</tr>
<tr>
<td></td>
<td><em>Tyra Bryant-Stephens, MD</em></td>
</tr>
<tr>
<td>2:45 p.m.</td>
<td>A Telehealth Program to Improve Adherence to Inhaled Corticosteroid Therapy</td>
</tr>
<tr>
<td></td>
<td><em>Andrew G Weinstein, MD</em></td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>Update on Local Pediatric Asthma Prevalence and Control</td>
</tr>
<tr>
<td></td>
<td><em>Deborah Gentile, MD</em></td>
</tr>
<tr>
<td>3:25 p.m.</td>
<td>Discussion Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</td>
</tr>
<tr>
<td>3:45 p.m.</td>
<td><em>Closing Remarks</em></td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td><em>Adjournment</em></td>
</tr>
<tr>
<td>7:00 p.m.</td>
<td><em>Conference dinner for registrants, faculty and guests – Costume Optional!</em></td>
</tr>
</tbody>
</table>
### Symposium on Gut and Lung Microbiome
**Symposium Chair: Jay Kolls, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:10 a.m.</td>
<td>The Early Life Gut Microbiome: The Link between Asthma-Related Risk Factors and Disease?</td>
<td>Christine Cole Johnson, PhD, MPH</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>How Gut Microbes Alter the Risks of RSV Infections and Asthma in Mice and Men</td>
<td>Dennis R. Ownby MD</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>Discussion <strong>Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</strong></td>
<td></td>
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<tr>
<td>9:10 a.m.</td>
<td>Break (Visit Exhibits)</td>
<td></td>
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<tr>
<td>9:40 a.m.</td>
<td>Regulation of Extraintestinal Immunity by the Gut Microbiome</td>
<td>Jay Kolls, MD</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>COPD: Influence of the micro- and mycobiomes</td>
<td>Alison Morris, MD</td>
</tr>
<tr>
<td>10:20 a.m.</td>
<td>Discussion <strong>Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS</strong></td>
<td></td>
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<tr>
<td>10:40 a.m.</td>
<td>David P. Skoner, MD, Medical Survivor</td>
<td></td>
</tr>
<tr>
<td>11:20 a.m.</td>
<td>Closing Remarks/Adjournment</td>
<td>Giovanni Piedimonte, MD</td>
</tr>
</tbody>
</table>
Accreditation

Physicians

Allegheny General Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Allegheny General Hospital designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses

For the purpose of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credits™ issued by organizations accredited by the ACCME.

Designation of credits for non-physicians

Allegheny General Hospital certifies participation in this educational activity, which has been designated for a maximum of 13.5 AMA PRA Category 1 Credits™.

Credit Breakdown

Friday, October 28  5.0 AMA PRA Category 1 Credits™
Saturday, October 29  5.75 AMA PRA Category 1 Credits™
Sunday, October 30  2.75 AMA PRA Category 1 Credits™

Location, Directions and Accommodations

Nemacolin Woodlands Conference Center
Farmington, Pennsylvania

For directions to Nemacolin Woodlands, please visit their Web site at www.nemacolin.com.

A block of rooms has been reserved at Nemacolin Woodlands at the special conference rate of $149.00 + tax single/double occupancy for lodge room and $199.00 + tax single/double for chateau room. There is no additional charge for children seventeen (17) years of age and under when sharing the same room as the parents and using existing bedding. A resort fee of $20.00 per room/per night will also apply. This fee includes valet parking, on-property shuttle service, fitness center access (not inclusive of wet areas) wireless internet, local and toll free calls, pool access, in-room coffee, newspaper, art tours, tennis, hiking, trail access and Marina access.

In addition, Nemacolin Woodlands is pleased to offer the following:

• 15% discount on merchandise purchases in the Nemacolin Retail Shoppes
• 10% discount on all resort activities including golf, spa and shooting, excluding the Wild Side.

Reservations may be made by calling 1.800.422.2736 or 724.329.8555 (ask for reservations). Please be sure to mention you are with the Allegheny General Hospital Asthma Conference to take advantage of the special conference room rate. The room block is limited; therefore, make reservations as soon as possible! The deadline for making reservations at the above rates is September ??, 2016. After this date, reservations will be accepted on space availability and at the prevailing rate.
Activities

Nemacolin Asthma Conference Dinner
Saturday Evening, 7:00-10:00 p.m.

Please join us for an opportunity to meet with fellow registrants, faculty and guests. We promise you a fun-filled evening. Cost per conference registrant is $45.00 per person; cost per guest is $45.00 per person. There is also special pricing for children ages 5-11 years of $15.00 per child. Please RSVP on the registration form. Tickets will be with your registration packet. Halloween costumes encouraged but optional!

Additional Information

For additional information, contact the Continuing Medical Education office by calling 412.359.4952 or by e-mail: rmiglior@wpahs.org.

Please visit the Nemacolin Asthma Conference Web site at www.ahn.org/nemacolin-asthma for conference updates.

Refund Policy

A refund of the registration fee, less a $75 processing fee, will be made when a written request or a telephone request followed by a written confirmation is received prior to October 23, 2015. After this date, refunds will not be made. Fees will not be refunded for failure to attend.

Allegheny General Hospital reserves the right to cancel or postpone any conference because of unforeseen circumstances or insufficient enrollment. In the event of such cancellation, full tuition will be refunded.

Registration Information

The registration fee includes course materials, lunch and break refreshments.

Fee: $425 Physicians
$200 Residents*, Fellows*, Nurses and Other Health Care Professionals
(* must include verification letter from Chief of Service)

Deadline: October 24, 2016
(After this date, registrations will be taken on a space available basis.)

To Register: Telephone registrations are not accepted. To register online or to download a brochure please visit www.aghcme.org; select Course Schedule from the left menu and scroll down to locate the conference. To mail or fax your registration, please complete the registration form and return it with the registration fee to:

Continuing Medical Education
Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pennsylvania 15212-4772
412.359.4952
412.359.8218 Fax

The preferred method of payment is VISA, MasterCard, American Express or Discover; however, checks will be accepted made payable to Allegheny General Hospital CME.
Eleventh Annual Nemacolin International Asthma Conference

Registration Form

PLEASE INDICATE: 

_________ # Adults attending Saturday Dinner @ $45.00

_________ # Children attending Saturday Dinner @ $15.00

NAME

DEGREE

AFFILIATION

ADDRESS

CITY  
STATE  
ZIP

TELEPHONE ( )  
E-MAIL ADDRESS

☐ If you require assistance with hearing, vision or mobility to make this conference accessible to you, please check this box and contact the CME office at 412.359.4952 at least two weeks prior to the conference date.

METHOD OF PAYMENT:  ☐ Credit Card

☐ Check

CREDIT CARD TYPE:  ☐ Visa

☐ MasterCard

☐ American Express

☐ Discover

TOTAL AMOUNT

CREDIT CARD #

EXP. DATE

NAME ON CARD

SIGNATURE*

* By signing this form, I authorize Allegheny General Hospital to charge my credit card for the above amount. My signature also indicates that I will not dispute this charge in the future through my credit card company.
Please visit the Nemacolin Asthma Conference Web site at www.ahn.org/nemacolin-asthma for conference updates.