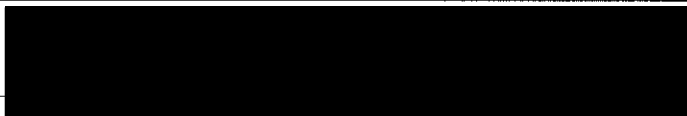


Committee on Energy and Commerce
U.S. House of Representatives
Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. Your Name: Rebecca Bascom MD MPH		
2. Your Title: Professor of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine, Penn State College of Medicine, Hersey, PA		
3. The Entity(ies) You are Representing: American Thoracic Society		
4. Are you testifying on behalf of the Federal, or a State or local government entity?	Yes	No X
5. Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2015. Only grants, contracts, or payments related to the subject matter of the hearing must be listed. See attached		
6. Please attach your curriculum vitae to your completed disclosure form.		

Signature: _____



Date: 9/12/17 _____

Rebecca Bascom, MD , MPD
Federal Grants, Contracts and Subcontracts received 1/1/2015 to present

5R01 CA151433-05 (Higgins-PI)
NIH

08/24/2010-01/31/2017

Multimodal Image-Guided Intervention System for Lung-Cancer Diagnosis and Staging

The goal of this project is to construct a multimodal image-guided intervention (IGI) system for the planning and guidance of bronchoscopy for lung cancer diagnosis, staging and treatment. Focus is on multi-modal image analysis methods, types and validation in human studies.

Role: Co-Investigator

5 P50 DA036107-03 (Muscat-PI)

09/01/15-08/31/16

NIDA/NIH

Pennsylvania State University Tobacco Center of Regulatory Science

The overall goal of the Penn State Tobacco Center of Regulatory Science (TCORS) is to develop a leading state-of-the-art research and training infrastructure that will inform policy on the regulation of tobacco products.

Role: Co-Investigator

1 U01 HL128954-01

08/01/2015-7/31/2016

University of Pittsburgh/NIH

Network Management Core (NEMO) for the Pulmonary Trials Cooperative (PTC)

Goal: The overarching goal of the NEMO is to encourage and facilitate collaboration, sharing, interaction, and research within the PTC. The NEMO will work with the Operations Committee to ensure that each project of the PTC has a significant public health impact.

Role: Consortium PI (NEMO Investigator)

5 R01NR012757-04 (Green/Levi-MPI)

07/01/2015 – 06/30/2016

NIH

Title: Preparing Family Caregivers of Very Ill Patients for End-of-Life Decision Making

The goal of this project is to determine if family caregivers of patients with life-threatening illnesses are better prepared for surrogate decision-making: 1) when they engage in a structured ACP process together with patients; and 2) when they use this online decision aid for ACP.

Role: Co-Investigator

0049047

10/01/2015 – 09/30/2018

University of Pittsburgh/PCORI (Hess-PI)

Title: A P2aTH Towards a Learning Health System in the Mid-Atlantic Region

The goal of this project is to create a clinical data research network (CDRN) to facilitate the integration of health information to allow evaluation of the effectiveness, benefits and potential harm of treatment options for specific health problems so that patients can make informed decisions about their care.

Role: Co-Investigator

CURRICULUM VITAE

Rebecca Bascom, M.D., M.P.H.
Penn State College of Medicine
Division of Pulmonary, Allergy, and Critical Care Medicine
500 University Drive, MC HO41
Hershey, PA 17033-0850

Version 07-10-2014

BIRTHDATE:

EDUCATION:

1971 – 1975 B.A. Radcliffe College, Harvard University, Cum Laude, French Studies
1975 – 1979 M.D. The University of Oregon Health Sciences Center
1983 – 1985 M.P.H. The Johns Hopkins University School of Hygiene and Public Health

Internship (Internal Medicine)

1979 – 1980 The Johns Hopkins University
The Johns Hopkins Hospital, Baltimore, Maryland

Residency (Internal Medicine)

1980 – 1982 The Johns Hopkins University
The Johns Hopkins Hospital, Baltimore, Maryland

Fellowship: Joint Fellowship in Pulmonary Medicine and Residency in Occupational Medicine

1982 – 1985 The Johns Hopkins University
The Johns Hopkins Hospital, Department of Medicine
The Johns Hopkins School of Hygiene and Public Health, Department of
Environmental Health Sciences, Division of Occupational Medicine

Research Fellowship

1984 – 1986 The Johns Hopkins University
Department of Medicine
Division of Clinical Immunology

CERTIFICATIONS:

1979 Diplomat, National Board of Medical Examiners
1982 Diplomat, American Board of Internal Medicine, #87996
1987 American Board of Preventive Medicine
Specialty Boards in Occupational Medicine, #22229
1988 American Board of Internal Medicine, Subspecialty Boards in Pulmonary Disease
#87996
1998 American Board of Internal Medicine, Subspecialty Boards in Critical Care
87996
1999 Advanced Cardiac Life Support – C#H1639-99

LICENSURE:

1979 – 1998 Maryland D32421
1997 – Present Pennsylvania 064481-L

RESEARCH INTERESTS:

Bronchoscopy Navigation Systems
Upper Respiratory Tract Inhalation Toxicology
Effects of Air Pollution on Susceptible Subpopulations
Idiopathic Pulmonary Fibrosis (IPF) and Interstitial Lung Disease (ILD)

CLINICAL INTERESTS:

Occupational and Environmental Respiratory Disease
Consultation in Pulmonary Medicine
Interstitial Lung Disease

FACULTY POSITIONS:

2012 – Present Penn State University Faculty Senate
College of Medicine Delegate to Faculty Senate Council 2012 -
Committee on Libraries, Information Systems, and Technology 2012 -
2013 – 2018 PSU Tobacco Centers of Regulatory Science (TCORS)
Internal Advisory Committee
1997 – Present Professor of Medicine (with tenure)
Division of Pulmonary, Allergy and Critical Care
Department of Medicine
Penn State University College of Medicine
Milton S. Hershey Medical Center

1998 – Present Graduate Faculty, Penn State University, College of Medicine
The Huck Institutes of the Life Sciences
Faculty member, Integrative Biosciences graduate program
Biomolecular Transport Dynamics 1998-2005
Molecular Medicine 2006-2008
Systems Biology 2008-2011

1992 – 1997 Adjunct Faculty in Toxicology
University of Maryland System-wide Program in Toxicology

1991 – 1997 Associate Professor of Medicine
The University of Maryland School of Medicine

1986 – 1991 Assistant Professor of Medicine
The University of Maryland School of Medicine

1987 – 1997 Assistant Professor of Medicine
The Johns Hopkins School of Medicine

1985 – 1987 Instructor in Medicine
The Johns Hopkins School of Medicine

CLINICAL PRIVILEGES:

2010 – Present Consulting Staff, PennState Hershey Rehabilitation Hospital
Hershey, PA

1997 – Present Active Staff, Milton S. Hershey Medical Center
500 University Drive, MC HO41, Hershey, PA

1999 – 2005 Honorary Staff (2001 – 2005), Consulting Staff Physician (1999 – 2001)
Interim Medical Director of Ventilator Weaning Unit, 1999
HealthSouth SubAcute Care Hospital
HealthSouth Rehabilitation of Mechanicsburg
Mechanicsburg, PA

1987 – 1997 Active Staff, University of Maryland Medical Center
22 S. Green Street
Baltimore, MD 21201
500 bed facility
Medical Critical Care Unit, Pulmonary Consultation, Outpatient Clinic

1987 – 1997 Active Staff, Baltimore Veteran’s Administrative Hospital
Medical Critical Care Unit (attending staff by University of Maryland
Faculty)

Early 1990s Active Staff, Deaton Chronic Care Facility, Baltimore, MD
Provided consultative service for chronic ventilator unit

1985 – 1987 Attending Clinician
The Good Samaritan Hospital, Occupational Pulmonary Clinic
5601 Loch Raven Blvd, Baltimore, MD

1979 – 1984 Johns Hopkins Medicine Resident/Fellow
Rotations at Johns Hopkins Hospital, Johns Hopkins Bayview Medical Center
(then Baltimore City Hospital), and Good Samaritan Hospital

MAJOR ACADEMIC TASKS:

2008 – 2010 Penn State College of Medicine Promotion and Tenure Committee

1998 – Present Interviewer
Penn State College of Medicine Admissions Committee
Internal Medicine Residency Program
Pulmonary Critical Care Fellowship Program

1997 – 2003 Program Director, Pulmonary/Critical Care Fellowship Program
Milton S. Hershey Medical Center Accomplishments include the first joint
Pulmonary/Critical Care Fellowship program accreditation 1999 (previously
Accomplishments: PSMHMC had separate Pulmonary and Critical Care training
programs; establishing Lehigh Valley Hospital as a secondary site for Pulmonary
Fellowship training (2001), and increasing the complement of fellows from 3 to
6, with approval for 9 fellows(beginning 2006). Two fellows received NIH K08
awards and joined the Penn State faculty on the Clinician Investigator track, and
three completed the Clinical Investigator Program in the Department of Health
Evaluation Sciences, leading to the Master of Health Science degree.

1997 – 2003 Medical Director, Pulmonary Function Laboratory and Respiratory Therapy
Milton S. Hershey Medical Center
Accomplishments: included the acquisition of first body plethysmograph at Penn
State, updating of all protocols, creation of an accessible Respiratory Care
Website (Michael Mihailoff RRT, Sitemaster) for posting of all protocols, and a
clinical study that assessed and demonstrated physician willingness to accept
respiratory therapy assessment and treatment recommendations (conducted with
Deborah Olson RRT).

2000 – 2003 Course Director, PLM 726
2011 – 2014 Medical Student Year 2 Pulmonary Pathophysiology Course
Accomplishments: included introducing the use of the Simulation Laboratory to
teach principles of respiratory pathophysiology using a simulated patient on a
ventilator (developed with Boisseau Murray MD and Jody Henry RN, PSU
Simulation Laboratory).

- 2000 – 2003 Division Chief, Pulmonary, Allergy, and Critical Care
Penn State University College of Medicine
Milton S. Hershey Medical Center, Hershey, PA
Accomplishments: established an Interdisciplinary Lung Cancer Clinic;
established a new Allergy Fellowship training program (Timothy Craig, program
director)
- 1999 – 2001 Outpatient Clinical Site Director, Suite 2400
Milton S. Hershey Medical Center
Accomplishments: Reconfigured staffing to have an office manager, LPNs and
medical assistants, providing a budget neutral increase in the staff:provider ratio
- 1998 – 2000 Member, Asthma Oversight Team (Disease State Management Task Force)
Penn State Geisinger Health System
Accomplishments: Participated in the creation of a systemwide, integrated
approach to asthma care delivery. Elements included inpatient treatment
pathways, outpatient nurse educators, and modification of the CareLine
algorithms to reflect the NAEPP guidelines (Timothy Craig MD and Sabrina
Gerolani, Team Co-chairs)
- 1997 – 2000 Section Chief, Pulmonary, Allergy, and Critical Care
Penn State Geisinger Health System, Hershey, PA
Accomplishments: Established exchange with Geisinger Pulmonary/Critical Care
physicians, recruited faculty and fellows
- 1991 – 1997 Interviewer, University of Maryland
School of Medicine Admission Committee,
Department of Medicine Intern Selection Committee
- 1988 – 1997 Director, Environmental Research Facility
University of Maryland School of Medicine
Baltimore, Maryland
Accomplishments: Directed use of a controlled human exposure facility with the
capacity to generate pollutants including ozone, nitrogen dioxide, formaldehyde,
sidestream tobacco smoke
- 1986 – 1988 Medical Director, Environmental Research Facility
University of Maryland School of Medicine
Baltimore, Maryland
- 1985 – 1986 Director, Occupational Pulmonary Clinic
The Johns Hopkins Division of Occupational Medicine
Baltimore, Maryland
- 1980 – 1981 Johns Hopkins Hospital Housestaff Council President

PROFESSIONAL MEMBERSHIPS:

1982 – 1985 American College of Physicians (#078602)
 1983 – Present American Thoracic Society (#00009621)
 1983 – 1998 Maryland Thoracic Society
 1985 – 1992 The Johns Hopkins Immunology Council
 1987 American Public Health Association (#4512935)
 1988 American Conference of Governmental Industrial Hygienists (#3926)
 1988 – 1998 Medical and Chirurgical Faculty of the State of Maryland
 1987 – 1988 American Industrial Hygiene Association
 1989 – 2004 American Academy of Allergy, Asthma and Immunology (#39856), Fellow 2000
 2000 Pennsylvania Thoracic Society
 1999 – 2000 American College of Chest Physicians (#141342), Elected Fellow 10/31/99

HONORS AND AWARDS:

1971 National Merit Scholarship
 1975 A.B., Cum Laude, Harvard
 1984 – 1985 Research Fellowship Award, American Lung Association of Maryland
 1986 Young Investigator Award, American Academy of Allergy and Immunology
 1987 – 1989 Richard L. Riley Scholar Award, American Lung Association of Maryland
 1990 Distinguished Service Award in Environmental and Occupational Health,
 American Lung Association of Maryland
 1992 State of Maryland Department of the Environment, Environmental
 Excellence Award: "In recognition for contribution to the improvement and
 preservation of Maryland's environment"
 1992, 1995 State of Maryland Governor's Salute to Excellence
 2003 Best Professor of the Block, Awarded by the Second Year Medical Students for
 the Respiratory Pathophysiology Block
 2003 – Present Doctors in America® 2003-2004 (top 5% of doctors)
 2003 – Present HMC Physician Patient Satisfaction Leader (top 10% of Press-Ganey database;
 top 1% 2006-2008)
 2003 – 2008 America's Top Doctors, Pulmonary Medicine selected by Castle Connolly
 2010 – 2014 Medical, Ltd.

EDITORIAL TASKS: Manuscript Reviewer

American Review of Respiratory Disease
 Chest
 Journal of the American Medical Association
 Journal of Allergy and Clinical Immunology
 Journal of Clinical Nutrition
 American Journal of Respiratory and Critical Care Medicine
 Environmental Health Perspectives

1991 Congress of the United States, Office of Technology Assessment
 Study for Congress on Identifying and Controlling Pulmonary Toxicants (Reviewer)

1995 International Union Against Tuberculosis and Lung Disease
 European Health Effects of Air Pollution Report reviewer.

2006 Center for Disease Control and Prevention, Office on Smoking and Health, The Health Consequences of Involuntary Exposure to Tobacco Smoke. (Peer Reviewer, Chapter 9, Involuntary Smoking and Adverse Respiratory Effects in Adults). 2006ISBN 0-16-076152-2.

RESEARCH REVIEW TASKS:

- 1991, 2004 Health Effects Institute, Cambridge Mass.
1993 Study Section: Epidemiology Studies of Long-term Exposure to Ozone
2004 Study Section: Measuring the Health Impact of Actions Taken to Improve Air Quality RFA 04-1
- 1994 National Institutes of Environmental Health Sciences
NIEHS Center Site Visit: Center for Ecogenetics and Environmental Health (David L. Eaton, Ph.D., Principal Investigator) June 21.
- 1995 – Present The Johns Hopkins Center for Alternatives to Animal Testing (CAAT)
Annual Research Review Meetings
- 1995 Medical Research Council of Canada
Ad Hoc Reviewer
- 1997 Veterans Administration
Ad hoc reviewer
- 1997, 1998
2000 California Tobacco Related Disease Research Program
General Medical Study Section (Chair), 1997, 1998; Respiratory (2000)
NOTE: The California legislature established this research program with a portion of the cigarette tax.
- 2000 – 2001 Johns Hopkins University, Center for Childhood Asthma in the Urban Environment, Scientific Outside Advisory Board
- 2001 – 2007 National Institutes of Health, Center for Scientific Review,
Epidemiology and Disease Control-3 Study Section (2001-2004)
Health of the Population Integrated Review Group, Epidemiology of Clinical Disorders and Aging Study Section (2004-2005)
Health of the Population Integrated Review Group, Infectious Diseases, Reproductive Health, Asthma and Pulmonary Study Section (2005-2007)

MAJOR CONSULTANTSHIPS:

- 1984 National Institute for Occupational Safety and Health (NIOSH),
Field Study: Occupational Asthma Due to Exposure to "Superglue"
- 1986 – 1987 United States Government General Services Administration,
Consultant on Indoor Air Quality

1986 – 1996 W. L. Gore and Associates,
Occupational Health Consultant

1987 University of Maryland College Park,
Consultant on Indoor Air Quality

1989 State of Maryland Department of the Environment
Chemical Hypersensitivity Syndrome Study

1990 United States Environmental Protection Agency
Data Analysis Team, "Indoor Air Quality and Work Environment Study:
EPA Headquarters Building"

1990 – 1991 The Johns Hopkins University Institute for Policy Studies
Environmental Working Group; Technical Advisor

1991 – 1993 Health Direct, Inc.,
Occupational Health Consultant

1993 – 1995 Department of Veterans Affairs (VA) Persian Gulf Expert Scientific
Persian Gulf Expert Scientific Panel 1993
Persian Gulf Chartered Committee, member (1994-1995)
Subcommittee for the Oversight of the Study "A National Health Survey of
Persian Gulf War Veterans," member (1994)

1995 – 1997 National Heart Lung and Blood Institute
Lung Health Study II. Data Safety Monitoring Board

1995 – Present The Johns Hopkins Center for Alternatives to Animal Testing
CAAT Advisory Board

1997 – 1998 University of Maryland Medical Systems
Latex Risk Group

1998 – 2002 American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
Member/Physician, Environmental Health Committee
Technology Awards – Judging Panel

1999 – 2000 US Environmental Protection Agency
Consultant to National Health & Environmental Effects Research Laboratory
Research Triangle Park, NC

2005 Pfizer Sanofi-Aventis Exubera Mock III AC Meeting
Review of planned presentation to FDA
New York, NY

2006 SAIC Review Panel Evaluation of White Paper: Malodorants as Non-Lethal
Deterrents: Psychological vs. Physiological Effects, P. Dalton and J.O'Donoghue

- 2005 – 2008 City of Alexandria, Virginia
Air Quality and Health Effects of the Mirant Power Plant
- 2008 – Present Broncus, Inc. Consultant for “Lung Point”
<http://www.broncus.com/physicians.asp>; <http://www.broncus.com/products.asp>.
- 2008 American Chemistry Council Task Group on Olefins

CAMPUS ACTIVITIES:

University of Maryland School of Medicine

- Department of Medicine Research Committee, (1986 - 1998)
(Chaired first Annual Research Retreat, 1995)
- Department of Medicine Work and Family Committee (Chairman), (1988-1990)
- School of Medicine Short-Term Research Training Program Committee,
(1991-1993)
- Medical School Council (alternate, 1992-1994)
- Tuesday Research Group (organizer, 1995 - 1998)
Participants: Paul Castellanos, otolaryngology, Paula Dobbs, speech
pathology; Robert Kane, VA Neuropsychology ANAM battery team,
Anne Solomon doctoral student

Research Mentor (original institution/position; current position)

- Stuart R. Willes
(UMd /pulmonary fellow; Baltimore; private practice)
- Anna Rigopoulou
(Greece/Visiting researcher; private practice)
- Karen Brown
(UMd/medical student; Yale, internal medicine faculty)
- Paul Raford
(UHUHS /occupational medicine resident; Primary Care, Thornton, CO)
- Earl Ford
(UHUHS/ occupational medicine resident; Internist, Preventive Medicine /
Wellness, Atlanta, GA)
- Joan Leonard Hudgins
(RWJohnson/resident; private practice, Newark NJ)
- Isis Rivera
(UMd/ minority student research program summer research student;
University of Puerto Rico, basic science faculty)
- Alisha Burton
(UMd /minority student research program summer research student;
Senior Group Leader at Target, Huntsville AL)
- Michael Dias
(UMd/otolaryngology resident; Physician at Sheppard Enoch Pratt
Hospital, Towson, MD)
- Perry Alexion
(UMd/otolaryngology resident; ENT-otolaryngologist, Greenbelt, MD)

Juan Pardo
(UMd/medical student; Otolaryngologist, Annapolis, MD)
Pathma Sukumar
(England;visiting research physician; unknown)

Co-mentor (original institution/position; current position)

Jana Kesavan
(previously Nadarajah, Kesavanathan) (JHU School of Hygiene and Public Health/doctoral student; US Army researcher) (Johns Hopkins University, Department of Environmental Health Sciences, Baltimore, MD).
Anne Solomon
(UMBC/ psychology; clinical practice)

Penn State University Hershey Medical Center

Occupational Health and Safety Committee for the Laboratory Animal Facility, 2005
Member, Medical Records Committee, 1998-2002
Chair, Forms Subcommittee, 1999 – 2002
Chair, 2000-2002 Initiated representation by information technology staff on the medical records committee.
Member, CUMED Oversight Committee,
Years I and II Integrated Curriculum Committee, 2000 – 2003
Member, Local Government Review Committee, 2000 - 2003
Vice-Chair, Medical Critical Care Committee, 1998 – 1999
Member, Practice Site Medical Directors Committee, 1999 – 2000
Member, Department of Anesthesia Chair Search Committee, 1997 - 1998
Member, Residency Directors Committee, 1998 – 2003
Member, Nephrology Chair Search Committee, 2000
Member, Respiratory Care Clinical Standards Committee, 1999 – 2001
Member, Core Standing Committee on Clinical Improvements, 1999 – 2000

Research Advisor (original institution/position; current position)

Timothy Lucas
(PSU/COM fellow; Assistant Professor of Neurosurgery at Penn Medicine, Philadelphia, PA)
Timothy Clark
(PSU/PCCOM fellow; President/CEO: Sleep Disorder Centers of PA and Central PA Pulmonary Associates, L.L.C.; Harrisburg, PA)
Maria Gesualdo
(PSU/PCCM fellow; Private practice, PA)
Maria Pettinger
(PSU/radiology resident; Radiologist at J.C. Blair Memorial Hospital, Huntingdon, PA)
Andrews Paul
(PSU/PCCM fellow; Private practice, Knoxville TN)
Milos Tucakovic

(PSU/PCCM fellow; Private practice, Athens, GA)
KJ Wesenberg
(OHSU/PCCM fellow; Private practice, Portland OR)
MD Rasmussen
(PSU/medical student; Private Practice, San Diego, CA)
CJ Coley
(PSU/medical student; PCCM fellow, U of Mich; Private practice,
Charlotte, NC)
Marina Dolina
(PSU/PCCM fellow; Private practice, York PA)
Seema Jain
(PSU/medical student; Private Practice, Atlanta, GA)
Justin Fisher
(PSU/medical student; practicing neurologist, Lancaster PA)
Cathy Karchner
(PSU/medical student; Private practice, Pediatrics, Gettysburg, PA)
Larisa Buyantseva
(PSU/master of health sciences student, epidemiologist, Canada
Occupational Health Bureau, Toronto Canada, resident in medicine,
Harrisburg PA; Allergy and Immunology at PinnacleHealth, Harrisburg,
PA)
Jennifer Toth
(PSU/PCCM fellow; assistant professor, PSUCOM)
Rohini Sharma
(Pinnacle Hospital/medicine resident; QDDP Residential Director at
Wheat Ridge Regional Center, Denver, CO)
George Shahinian
(PSU/PCCM fellow; Critical Care Medicine; Laguna Beach Sleep
Center; Laguna Beach, CA)
Janette Foster
(PSU/PCCM fellow; Medical Director, Critical Care Services, Holy
Spirit Hospital; Harrisburg,PA)
Michael Benninghoff
(PSU/PCCM fellow; Critical Care Medicine, Pulmonary Associates;
Newark, DE.)
JH Chang
(Ewha University/ visiting researcher; faculty South Korea)
Viral Patel
(PSU research assistant; Family Medicine, Chestnut Hill Hospital;
Lebanon, PA)
Muhammad S. Khan
(PSU research assistant; Instructor (Junior Faculty), Massachusetts
General Hospital; Boston, MA)
Rebecca Warren
(PSU/ medical student; VCU medicine resident; Internal Medicine, PSU;
Hershey, PA)
Lusine Simonyants
(PSU/PCCM fellow; private practice, Glendale, CA)

Saeid Safae-Semiromi
(PSU/PCCM fellow; private practice, Glendale, CA)

RyaLynn Carter
(PSU/medical student; Obstetrician, Gynecologist; Private Practice;
Fairfax, VA)

Anju Sinha
(PSU/molecular medicine graduate student, PSU MHA and MBA
Graduate Student; Harrisburg, PA)

Duane Cornish
(research intern; doctoral student in Computer Engineering; Senior
Software Developer; Johns Hopkins University Applied Physics Lab;
Laurel, MD)

Manuel Betancourt-Ramirez
(PSU/CCM fellow; Private Practice in Lady Lake, Fl)

Krista Hammaker
(research intern; B.S. Biology from Juniata College; Naturopathic Medical
Student at Bastyr University, Kenmore WA)

Anne Dimmock
(was student research intern; now research coordinator, Penn State College
of Medicine)

Patrick Gleeson
(was research intern while in college; now Penn State Medical
student)

Jim Hsieh
(research intern; ENT resident; Founded the MSKCC Translational
Kidney Cancer Research Program (MSKCC-TKCRP); Englewood Cliffs,
NJ)

Jennifer Frielle
(research intern; BS Biochemistry & Molecular Biology from
Gettysburg College)

Anit Rastogi
(research intern; Duke University student, medical student; General
Surgery PriMed LLC, Livingston, NJ)

Kathryn Bedard
(research intern; Barnard College student)

Abby Sido
(research intern; Ursinus college student; M.S. Candidate in Food
Science, PSU College of Agricultural Sciences; University Park, PA)

Trevor Kuhlengel
(research intern; BS in Bioengineering at Lehigh University)

Christian McEvoy
(summer research intern while Penn State medical student)

Steven Swavely
(summer research intern while Penn State medical student)

Michael Anthor
(research intern; BS Electrical Engineering Penn State University Honors
College; Consultant with Althus Group's Research Valuation and
Advisory Groups)

Doctoral Thesis Committees

- Lizzie Santiago
(PSU/Chem Eng doctoral student/ University of Puerto Rico basic science faculty)
- Ali Fazzih
(PSU/Chem Eng doctoral student; The Princeton Review MCAT Instructor; Principal Scientist at Johnson & Johnson)
- Timothy Brenza
(PSU/Chem Eng doctoral student; UIowa post-doc)
- Melissa Bates
(PSU/Chem Eng doctoral student; UWisc postdoc; Associate Scientist at University of Wisconsin-Madison)
- Benafsheh Keshvarzi
(PSU/Chem Eng doctoral student and post doc)
- Rebecca Jean Watts
(PSU/Molecular Medicine doctoral student)
Volunteer, French Interpreter

COMMITTEE ACTIVITIES:

- 1985 – 1998 American Lung Association of Maryland
Indoor Air Quality Sub-Committee (1985 - 1987)
Environmental and Occupational Health Committee Chairman (1989 - 1993)
Board of Directors (1991 - 1994)
Strategic Planning Committee (1991 - 1992)
Strategic Planning Implementation Committee (1992 - 1993)
Advocacy Committee Chairman (1993 - 1995)
Government Relations Committee (1995-1996)
Maryland Thoracic Society Board of Directors (1996 - 1997)
- 1986 – Present American Thoracic Society
Member 1986 – present
- Membership Committee (Chairman, 1990-1995)
Board of Directors (1995 - 1997)
International Conference Committee (2008, 2009)
Assembly on Environmental and Occupational Health
Program and Planning Committee (1987 – 1990, 2005-6)
Long Range Planning Committee (1990 - 1997)
Initiated revision of Lung Disease Questionnaire
Secretary (1992 - 1993)
Chairman (1995 - 1997)
Program and Planning Chair-elect, Chair and Past-chair (2006-2009)
Chairman, Writing Committee: Health Effects of Air Pollution, (1992 - 1993)
ATS Statement Committee “Guidelines as to what constitutes an adverse health effect of air pollution” (1996 - 1998)

- International Conference Scientific Program Co-organizer and co-chair
 1990: Scientific Symposium: Occupational Lung Disease due to Low Molecular Weight Substances
 1991: Scientific Symposium: Variability of Individual Susceptibility to Respiratory Disease
 1994: Scientific Symposium: Molecular Epidemiology in Environmental and Occupational Health
 2007: Mini-Symposium: Nanoparticles: What are those little guys doing?
 2009: Scientific Symposium: Health and the Environment in a Globalized World. May, San Diego
 Environmental and Occupational Health Assembly of the ATS (1996).
- 1986 – 1988 Maryland State Department of Education
 Task Force on Indoor Air Quality (1987 - 1988)
- 1987 – 1998 State of Maryland
 Governor's Radon Task Force (1987 - 1988)
 Department of the Environment (MDE), Speakers List (1991 - 1994)
 MDE 2000 Steering Committee (1994 - 1998)
- 1990 – Present American Lung Association
 Federal Lung Program Committee (1990 - 1991)
 Annual Research Fund Dinner Committee (1991 - 1994)
 Lung Disease Program Committee (1993 - 1994)
 Environmental Health Core Program Work Group (1998)
 National Air Conservation Commission (1998)
 Program Coordinating Committee (1998-1999)
 Asthma /Tobacco Control Programs Work Group (1998-1999)
- Session Co-chair: Joint ALA/ATS International Conference session: Current Issues in Air Pollution Health Effects Research. (1994)
 Planning Committee (1995 - 1996)
 Council (1995 - 7)
- 1990 ILSI Risk Science Institute/United States Environmental Protection Agency
 Organizing Committee for Conference: Methodology for Assessing Health Risks From Complex Mixtures in Indoor Air
- 1991 American College of Occupational and Environmental Medicine
 Seminar Director, State of the Art Fall Conference
 Multiple Chemical Sensitivities. Consensus and Controversy
- 1991 – 1992 National Academy of Sciences/Institute of Medicine
 Committee on the Health Effects of Indoor Allergens
- 1992 – 1993 National Association of County Health Officials
 Maryland Department of the Environment, Program Advisor, "Risk

Communication: A Necessary Skill for Working with Communities"

- 1992 – 1994 National Research Council Commission on Life Sciences
Institute of Laboratory Animal Resources
Committee on Occupational Safety and Health of Research Animal
Facilities
- 1992 – 2000 American Academy of Allergy, Asthma and Immunology
Environmental Control and Air Pollution Committee
(Chairman (1992 - 1993)
Ad Hoc Committee on Multiple Chemical Sensitivity
(Chairman (1993 - 1994)
Seminar Committee (1997)
Air Pollution Committee (1993 - 2000)
EOD Interest Section – Seminars Committee Representative (1997-2000)
- 1993 American College of Chest Physicians
Consensus Conference: Assessment of Occupational Airway Disorders
- 1993 National Institute for Occupational Safety and Health (NIOSH Workshop)
"Preventing Occupational Asthma," Workshop Chair:
Research Needs, Pittsburgh, PA, March 9, 1993
- 1993 – 1998 Baltimore Women's Forum
- 1996 – Present The Johns Hopkins Center for Alternatives to Animal Testing
Advisory Board, member
- 2002 Chemical Industry Institute of Toxicology
The Nose Knows Workshop
Member, Organizing Committee
Session Chair for Clinical Pathology and Epidemiology
September 3-6, 2002
Research Triangle Park, NC
- 2002 Pennsylvania Thoracic Society Annual Meeting Committee
September 6-7, 2002
Pittsburgh, PA
- 2002, 2005, 2007 Bethesda Mission Health Clinic
Attending (volunteer)
- 2008 – 2009 The National Academies Board on Environmental Studies and Toxicology
Member, Committee on Emergency and Continuous Exposure Guidance
Levels for Selected Submarine Contaminants.
- 2011 Institute of Medicine of the National Academies
Committee on the Health of Populations

TEACHING ACTIVITIES:

Penn State University, College of Medicine

2012-present	Responsible for weekly didactic lecture series for Pulmonary/Critical Care Fellowship program, with monthly themes covering the ACGME syllabus including month-long focus on interstitial lung disease
2007- present	Clinical case conferences for Pulmonary Medicine: Monthly pulmonary-pathology interdisciplinary conference with pathology, radiology and pulmonary; weekly case conference commonly reviewing interstitial lung disease cases
2011-2014	PULM 726: Extensive revision of curriculum including creating cases for problem based learning with topics including interstitial lung diseases, bronchiectasis, pulmonary embolism, pneumothorax, asthma, COPD, ARDS. Created problem sets for arterial blood gas, and pulmonary function testing. Created experiential learning sessions for lung auscultation, ventilator based assessment of airway resistance and lung compliance, mucus mobilization and x-ray interpretation. Delivered lectures on occupational and environmental lung disease, and non-pharmacologic treatment of lung disease.
1999 –2008	Clerkship in Medicine (2 nd year students), “Pneumonia” several times each year
2004 – Present	Respiratory Pathophysiology Course (MS II) Problem based learning small group facilitator
2004 –2011	Division of Pulmonary, Allergy and Critical Care Medicine Grand Rounds, Occupational and Environmental Health Lecture Series. One lecture every two months covering the span of topics over a three year period.
2004	Department of Medicine Research Conference - The Health of “First Responders”: New York Police Officers (NYPO) after 9/11
2008	Oncology Research Conference/Molecular Medicine— “Bronchoscopy Guidance Systems for Lung Cancer Diagnosis”

Penn State University, College of Medicine – Penn State Geisinger Health System

1998	Oncology Clinical Conference – “Peering down the barrel of tobacco’s great Russian roulette”.
1999	Research Conference – Section of Pulmonary, Allergy, & Critical Care Medicine, “Breathing Disorders Study”
1/11/99	Clerkship in Medicine (2 nd year students), “Pneumonia (1/11/99; 9/7/99)
1/18/99	Cancer Center Inservice, “Susceptibility to Lung Cancer”
2/23/99	Pulmonary Research Lecture, “Raxar Study Update”

9/14/99 Current Concepts in Family Medicine “Asthma Guidelines”
 10/13/99 Department of Veteran’s Affairs, Wilkes-Barre, PA “Occupational Lung Diseases”
 7/1/99 Clinical Skills Course – “The Critically Ill Patient” (year 3 students)
 1997-9 Case Conference (2nd year medical students) “Pneumonia” (3-4 times each year)
 9/21/99 Department of Medicine Grand Rounds, “Harnessing Whitewater”

University of Maryland School of Medicine

Medical Students

1987 – 1990 Sophomore Student Lecture: "Toxic Gas Inhalation"
 1987 – 1989 Second Year pathophysiology lecture: "Hypersensitivity Pneumonitis and Occupational Asthma" (1987, 1988); Immunological Lung Diseases" (1989) Pulmonary Responses to the Environment (1996, 1997)
 1987 Department of Medicine Third Year Clinical Lectures: Pulmonary Function Tests, Asthma
 1990 – 1994 Department of Medicine's Ambulatory Care Seminar: "The director of medical records can't breathe at work: What do you do, doctor?" (1990); "How do I know if my patient’s asthma is made worse by the environment?" (1991); "Allergy testing: When, if ever, does your patient need it?" (1992); "Evaluation of Cough" (1994)
 1992 Department of Medicine Morbidity and Mortality Conference. "Silicosis, sarcoidosis or both" May 1, 1992

Department of Epidemiology and Preventive Medicine

1987 – 1988 "Outdoor Air Pollution, Indoor Air Pollution"
 1992 Introduction to Environmental Health (Graduate Course)
 Air Pollution: Sources and Solutions.

University of Maryland at Baltimore Graduate School

1992 – 1998 University of Maryland System-Wide Program in Toxicology, TOXI 601 "Toxic Responses of the Respiratory System, Toxic Effects of Air Pollutants"
 1997 University of Maryland System-Wide Program in Preventive Medicine, PRE 668 Occupational and Environmental Medicine, Lecture, “Health Effects of Air Pollution”.

University of Maryland

- 1993 College Park Campus: Analytical/Nuclear/Environmental Chemistry Group "Air pollution is bad for your health: The data," November 12, 1993
- 1994 Baltimore County Campus: Biochemistry and Engineering Seminar "Respiratory Effects of Toxicants." October 17

Johns Hopkins School of Hygiene and Public Health, Division of Occupational Medicine

- 1986 Clinical Toxicology: Toxic Gas Inhalation
- 1985 – 1998 Occupational Lung Disease Course, "Immunologic Lung Diseases: Hypersensitivity Pneumonitis and Occupational Asthma" (annual lecture)
- 1987 – 1990 Occupational Medicine (Clinical), 188.684 Spirometry" and "Occupational Pulmonary Diseases" (annual lectures)
- 1990 Occupational Diseases Course (4/19/90 and 4/26/90)
Lectures on: Occupational Lung Diseases, Pulmonary Function, Asbestos-Related Disorders, Silicosis, Occupational Asthma, Impairment and Disability Evaluation, Pneumoconioses
- 1994 – 1995 Clinical Occupational Medicine Course
Clinical Tools for Pulmonary Assessment

Uniformed Services University of the Health Sciences, Bethesda, Md.

- 1990 Occupational Lung Disease, Spirometry
- 1991 – 1998 Occupational Asthma, Hypersensitivity Pneumonitis (annual lecture)

Union Memorial Hospital Medical House Staff

- 1988 – 1998 Occupational Lung Disease (annual lecture)

Courses:

- 1986 – 1991 Course Co-director. Intensive Training in Spirometry (NIOSH Certified)
The Johns Hopkins School of Hygiene and Public Health (20 students annually)
- 1988 – 1991 Course Co-director. U.S. Army Intensive Training in Spirometry (NIOSH Certified) (20-30 students annually)
- 1989 – 1991 Course Co-director. American Thoracic Society International Conference
Postgraduate Course: Occupational Respiratory Disorders
- 1991 Seminar Director. American College of Occupational Medicine Multiple
Chemical Sensitivity: Consensus and Controversy

- 1992 Course Co-director: American Thoracic Society International Conference
Postgraduate Course: Scientific Frontiers in Occupational Lung Disease
- 1993 Course Co-Director; American Thoracic Society International Conference
Postgraduate Course: Occupational Respiratory Disorders
- 1996 Course Co-Director; Evaluation of Asthma and Upper Airways Diseases in the
Workplace. Sponsored by Johns Hopkins and the University of Maryland

COMMUNITY ACTIVITIES:

- 2012 - Present Member of St. Stephen's Cathedral Chior
- 2014 Founder of St. Stephen's Community Garden

GRANT SUPPORT:

- 1984 The Ames Rubber Corporation, "Evaluation of the Respiratory Health of a Group of Synthetic Rubber Workers", **R. Bascom**, Co-investigator, \$22,524.
- 1985 The Ames Rubber Corporation, "Longitudinal Effects of Employment in a Rubber Thermoinjection Process", **R. Bascom**, Co-investigator, \$21,084.
- 1987 – 1989 American Lung Association, "Effects of Ozone Inhalation on Nasal Challenge with Antigen", **R. Bascom**, Principal Investigator, \$50,000.
- 1987 University of Maryland Special Research Initiative Award, "Physiologic and Biochemical Response of the Upper Airway to C-fiber Afferent Stimulation", **R. Bascom**, Principal Investigator, \$4,492.
- 1988 Maryland Industrial Partnerships, "Removal of Sidestream Cigarette Smoke", **R. Bascom**, Principal Investigator, \$7,414.
- 1988 University of Maryland Pangborn Fund, "Respiratory Sensitivity to Environmental Tobacco Smoke", **R. Bascom**, Principal Investigator, \$2,400.
- 1989 American Cancer Society Institutional Research Grant, "Modulation of Hydrogen Peroxide Induced Human Tracheal Epithelial Injury by Neutrophils *in vitro*", **R. Bascom**, Principal Investigator, 11/1/88 - 6/30/89, \$4,000.
- 1989 – 1991 American Lung Association, "Modulation of Epithelial Cytotoxicity by Neutrophils", **R. Bascom**, Principal Investigator, \$35,000.
- 1989 – 1995 National Institutes of Health, National Heart Lung and Blood Institute First Award, "Respiratory Sensitivity to Environmental Tobacco Smoke", **R. Bascom**, Principal Investigator, \$499,560.
- 1990 – 1997 Center for Indoor Air Research, "Environmental Tobacco Smoke: Nasal Response and Aerosol Deposition Effect", **R. Bascom**, Principal Investigator, \$461,078.

- 1992 – 1993 National Institute for Occupational Safety and Health, “Index System for a Compendium of Occupational and Environmental Respiratory Questionnaires”, \$13,016.
- 1994 – 1995 Special Research Initiative Support (SRIS), University of Maryland School of Medicine, “Effects of Smoke on Nasal Function and Mucociliary Clearance in Healthy Non Smoking Adults”, **R. Bascom**, Principal Investigator, \$14,950.
- 1998 – 1999 Glaxo Wellcome Inc. – Raxar Study Initiation, “Pharmacokinetics of Grepafloxacin (Raxar) and Ciprofloxacin (Cipro) in the Lung”, **R. Bascom**, Principal Investigator, \$63,970.
- 1998 – 2000 Glaxo Wellcome, Inc. – “A Randomized Double-blind, Parallel Group Trial Evaluating the Safety and Efficacy of the DISKUS Formulations of Salmeterol 50mcg BID and Fluticasone Propionate 500mcg BID Individually and in combination as Compared to Placebo in COPD Studies”, **R. Bascom**, Principal Investigator, \$75,324.
- 1999 – 2000 Smith Kline Beecham, “An open, non-comparative multicenter study to assess the efficacy and safety of oral Augmentin SR 2000/125mg twice daily for 7 days for the treatment of bacterial community acquired pneumonia in adults”, **R. Bascom**, Investigator, \$50,800.
- 1999 – 2000 Smith Kline Beecham, “Multicenter Study of Safety & Efficacy in CAP”, **R. Bascom**, Principal Investigator. 11/1/1999-5/31/2000, \$65,500.
- 2003 – 2003 Ortho Biotech, Inc. “A Virtual Medical Education Center”, **R. Bascom**, Principal Investigator, 11/20/02-11/19/03, \$15,000.
- 2003 – 2005 Dean’s Feasibility Grant Application, “Health Effects of Exposure to Air Pollution among Asthmatics Treated with an Inhaled Corticosteroid, an Inhaled long-Acting Beta-Agonist, or Placebo”, Zhengmin Qian, MD – Principal Investigator, **R. Bascom** Co-investigator, \$30,000.
- 2004 – 2005 American College of Allergy, Asthma & Immunology, “Duration of action of local anesthetics in cough suppression”, Soheil Chegini, MD - Principal Investigator, **R. Bascom** - Co-investigator.
- 2004 – 2007 Philip Morris, “Ozone Dose to the Human Respiratory Tract: Effects of Cigarette Smoking”, James Ultman PI, **R. Bascom**, consultant, 3% effort, September 1, 2004 -8/31/07, \$9,246.
- 2005 – 2007 National Institutes of Health, National Cancer Institute, “Synergistic CT-Bronchoscopy for Lung Cancer Assessment”, William E. Higgins, Principal Investigator, Grant # NIH-NCI RO1-CA074325 (**R. Bascom** 11% effort as Co-Investigator FY ending 5/31/05, \$50,207), (20% effort as Co-Investigator, FY

6/1/05-5/31/06, \$132,827), (FY 2/1/05-12/31/07, \$62,246), (FY 2/1/05-12/31/07, \$69,669).

- 2005 – 2007 Endographics Imaging Systems, Inc., “CT-Bronchoscopy Workstation for Lung Cancer Assessment”, (project funded through a grant from National Institutes of Health, National Cancer Institute, SBIR CA91534), **R. Bascom** 11% effort as co-Investigator, 2/5/05-1/31/2007, \$69,669.
- 2006 – 2007 Barsumian Trust, “Effect of HMG CoA reductase inhibitors on tobacco induced heart dysfunction in rats”, Andrew Sumner, MD, Principal Investigator, **R. Bascom**, Co- Investigator 1/1/06-12/31/07, 1/1/07-12/31/2007, \$15,000.
- 2007 – 2010 Pennsylvania Department of Health, “Idiopathic Pulmonary Fibrosis (IPF) Disease Registry”, Primary Recipient University of Pittsburgh, Naftali Kaminski, PI, (Subrecipient Penn State University, **R. Bascom**, PI, Subcontract 5/1/07-12/31/10, \$68,000). Other collaborating sites: Geisinger Health System, University of Pennsylvania and Temple University.
- 2010 – 2015 National Institutes of Health, National Cancer Institute, “Multimodal Image-Guided Intervention System for Lung-Cancer Diagnosis and Staging” William E. Higgins, Principal Investigator, Grant #NIH NCI RO1-CA151433, **R. Bascom** Co-Investigator, 8/24/10-1/31/15, \$213,496.
- 2011 - 2013 Pennsylvania Department of Health SAP# 4100054920, “Pennsylvania Lung Fibrosis Registry”, Primary Recipient University of Pittsburgh, Naftali Kaminski, PI, \$425,000; **R. Bascom**, Principal Investigator, Penn State University Sub-award 1/1/11-12/31/13, PI \$73,000.
- 2012 – 2013 United BioSource Corporation, “Evaluation and Modification of the Exacerbations of Chronic Pulmonary Disease Tool (EXACT) for Use as a Measure of Symptoms in Patients with Idiopathic Pulmonary Fibrosis”, **R. Bascom**, Principal Investigator, 6/4/12-6/30/13, \$12,200.
- 2012 – 2015 National Institute of Nursing Research, “Preparing Family Caregivers of Very Ill Patients for End-of-Life Decision Making”, Michael J. Green, PI, 9/27/12-6/30/15, \$1,731,673. **R. Bascom**, Co- Investigator.
- 2012 – 2015 InterMune, Inc., “A Randomized, Double-blind, Placebo-controlled, Phase 3 Study of the Efficacy and Safety of Drug A in Patients with Idiopathic Pulmonary Fibrosis”, **R. Bascom**, Principal Investigator, 9/26/12-3/31/15, \$135,245.
- 2013 – 2016 InterMune, Inc., “An Open-label Extension Study of the Long-term Safety of Drug A in Patients with Idiopathic Pulmonary Fibrosis”, **R. Bascom**, Principal Investigator, 9/17/13-9/30/16, \$22,919.
- 2013 – 2018 Genentech, Inc., “A Phase II, Randomized, Double-Blind, Placebo-controlled, Study to Assess the Efficacy and Safety of Drug A in Patients with Idiopathic Pulmonary Fibrosis”, **R. Bascom**, Principal Investigator, 11/25/13-11/30/18, \$86,670.

- 2014 – 2016 InterMune, Inc. “A Treatment Protocol to Allow Patients in the US With Idiopathic Pulmonary Fibrosis Access to Drug X,” **R. Bascom**, Principal Investigator, 5/15/2014-11/30-2016, \$43,124.
- 2014 -2016 Commonwealth of Pennsylvania, Department of Public Health, Tobacco Settlement Fund (“CURE”); “Genetic Analysis of a Multigenerational Cohort with Familial Interstitial Pneumonia”, **R. Bascom**, Principal Investigator, 8/1/2014-12/31/2016, \$50,000.

PUBLICATIONS:

Books:

1. **Indoor Allergens: Assessing and Controlling Adverse Health Effects.**
A report of the Committee on the Health Effects of Indoor Allergens. A committee of the Institute of Medicine. Andrew M. Pope, Roy Patterson, and Harriet Burge, editors. National Academy Press, Washington, DC, 1993; 308 pages. ISBN-13: 978-0309048316.
2. **Occupational Health and Safety in the Care and Use of Research Animals.**
Committee on Occupational Safety and Health in Research Animal Facilities, Institute of Laboratory Animal Resources, Commission on Life Sciences, National Research Council. National Academy Press, Washington, DC, 1997, 154 pages. ISBN-13: 978-0309052993.
3. **Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants. Volume 3.**
Committee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants; Committee on Toxicology; National Research Council ISBN: 0-309-14380-2, 192 pages, 6x9, 2009. ISBN-13: 978-0-309-14379-0.
4. **Scientific Standards for Studies on Modified Risk Tobacco Products.**
Committee on Scientific Standards for Studies on Modified Risk Tobacco Products, Institute of Medicine. National Academies Press, Washington, DC, 2012, 350 pages. ISBN-13: 978-0309223980.

Chapters:

1. **Bascom R**, Johns CJ. *The Natural History and Management of Sarcoidosis.* **Adv Intern Med.** Year Book Medical Publishers, Inc. 1986; 213-241.
2. Naclerio RM, Pipkorn U, Iliopoulos O, **Bascom R**, Kagey-Sobotka A, Proud D, Lichtenstein LM. *The Response to Nasal Challenge with Antigen Does Not End Within Minutes.* **Proc: Immunobiol in Otol Rhinol Laryngol.** 1987; 333-339.
3. Peters SP, **Bascom R**, Warner, JA, Freeland HS, Pipkorn U, Proud D, MacGlashan Jr DW, Naclerio RM, Kagey-Sobotka A, Lichtenstein LM. *The Role of Arachidonic Acid Metabolites and Mast Cell and Basophil Activation in Human Allergic Reactions.* **A Perspective on Biology**

and Medicine in the 21st Century. I.S. Johnson and Y. Rue, editors, Royal Society of Medicine Services, Ltd. London/New York. 1988; 167-177.

4. **Bascom R**, Ford E. *Don't just "Do Spirometry" -- Closing the Loop in Workplace Spirometry Programs.* In: Beckett WS, **Bascom R**, editors. **Occupational Lung Disease. Occupational Medicine: State of the Art Reviews.** Hanley & Belfus, Inc., Philadelphia. 1992; 7:347-363.
5. **Bascom R.** *Occupational and Environmental Respiratory Disease: A Medicolegal Primer for Physicians.* In: Beckett WS, **Bascom R**, editors. **Occupational Lung Disease. Occupational Medicine: State of the Art Reviews.** Hanley & Belfus, Inc., Philadelphia. 1992; 7:331-345.
6. **Bascom R.** *Air Pollution and the Nose.* In: Mygind N, Naclerio RM, editors. **Allergic and Non-Allergic Rhinitis: Clinical Aspects.** Munksgaard, Copenhagen. 1993; 32-45.
7. Raford P, **Bascom R.** *Disorders of the Upper Airway.* In: Cullen MR, Rosenstock L, editors. **Textbook of Clinical and Occupational Medicine.** W.B. Saunders Company, Philadelphia 1994; 315-328.
8. Dias M, Shusterman D, Kesavanathan J, **Bascom R.** *Upper Airway Diagnostic Methods.* In: Harber P, Schenker M, Balmes J, editors. **Occupational and Environmental Respiratory Disease.** CV Mosby, St. Louis, 1995; 6:67-89.
9. **Bascom R**, Kesavanathan J, Swift DL. *Human Susceptibility to Indoor Contaminants.* In: Seltzer J, editor. **Occupational Medicine: State of the Art Reviews.** Hanley & Belfus, Philadelphia. 1995; 119-132.
10. **Bascom R**, Kesavanathan J, Swift DL. *Indoor Air Pollution: Understanding the Mechanisms of the Effects.* In: Gammage RB, Berven BA, editors. **Indoor Air and Human Health.** CRC Press, Boca Raton 1996; 513:742-2020.
11. **Bascom R**, Shusterman D. *Occupational and Environmental Exposures and the Upper Respiratory Tract. Air Pollution and the Nose.* In Naclerio RM, Durham SR, Mygind N, eds. Rhinitis. Claude Lenfant, series editor. **Lung Biology in Health and Disease.** Marcel Dekker 1997, 65-94.
12. **Bascom R**, Ouellette, JJ. *Indoor Environment and Asthma.* In: **Lung Biology in Health and Disease**, Bush RK, editor Environmental Asthma. Claude Lenfant, series editor. Marcel Dekker, Chapter 8, pp 141-164, 2000.
13. Tucakovic M, **Bascom R**, Bascom PB. *Pulmonary Medicine and Palliative Care* [Review][65 refs]. **Best Practice & Research in Clinical Obstetrics and Gynaecology.** Harcourt Publishers Ltd. 15(2), 2001.
14. **Bascom R**, Ellaurie M. 20.3 *Upper Airway Disorders.* In: Rosenstock L, Cullen MR, Brodtkin CA, Redlich C, editors. **Textbook of Clinical Occupational and Environmental Medicine, Second Edition.** Elsevier Saunders, Philadelphia 2005, 437-452.

15. **Bascom R, Dolina M.** *Upper Airway Disorders*. William Rom editor. **Environmental and Occupational Medicine, Fourth Edition**, Wolters Kluwer/Lippincott Williams & Wilkins, Philadelphia 2007, 582-616.
16. Simonyents L and **Bascom R.** *Gastroesophageal Reflux Disease, In, In A Page. Ambulatory Medicine*, RJ Williams, S Kahan, eds., Lippincott Williams & Wilkins, 2008, 22-23.
17. Sharma R and **Bascom R.** *Pulmonary Function Testing, In, In A Page. Ambulatory Medicine*, RJ Williams, S Kahan, eds., Lippincott Williams & Wilkins, 2008, 94-95.
18. Rasmussen MD, **Bascom R.** *Silo Filler's Disease* **eMedicine Journal** [serial online]. 2002; updated 2006.
19. **Bascom R**, Benninghoff M, Alam S. *Pneumothorax.* **eMedicine Journal** [serial online]. 2003, updated 2006, 2008. Available at: <http://emedicine.medscape.com/article/424547-overview> 33814 page views Jan-June 2010.
20. **Bascom R**, Dolina MY. *Immunoglobulin A Deficiency.* **eMedicine Journal** [serial online]. 2003, updated 2006, updated 2008. Available at: <http://emedicine.medscape.com/article/136580-overview> 17,021 page views Jan-June 2010.
21. **Bascom R**, Tucakovic M, Flood W, Mehta SM. *Secondary Lung Tumors.* **eMedicine Journal** [serial online]. 2004; updated 2006.
22. Bates ML, **Bascom R.** *Air Pollution and Pulmonary Vasculature.* In: Yuan J X-J, Garcia JGN, Hales CA, Rich S, Archer SL, West JB, (eds). **Textbook of Pulmonary Vascular Disease.** DOI 10.1007/978-0-387-87429-6_67, Springer Science + Business Media LLC 2011.959-973.
23. **Bascom R**, Dimmock AEF, Howrylak JA. *Products of Tobacco Combustion. The Toxicant Induction of Irritant Asthma, Rhinitis, and Related Conditions.* Springer US, 2013. 131-192.
24. Cheirsilp R, **Bascom R**, Allen T, Higgins W. *3D Intrathoracic Region Definition and its Application to PET-CT Analysis*, **SPIE Medical Imaging 2014: Computer-Aided Diagnosis**, Stephen Aylward and Lubomir M. Hadjiiski, eds., Proc. Of SPIE Vol. 9035, pp. 90352J-1---90352J-11, DOI: 10.1117/12.2037076.
25. Zang X, **Bascom R**, Gilbert C, Toth J, Higgins W. *3D Endobronchial Ultrasound Reconstruction and Analysis for Multimodal Image-Guided Bronchoscopy*, **SPIE Medical Imaging 2014: Ultrasonic Imaging and Tomography**, Johan G. Bosch and Marvin M. Doyley, eds., Proc. Of SPIE Vol. 9040, pp. 90400X-1 --- 90400X-12, DOI:10.1117/12.2036115.

Refereed Articles:

1. Stark AR, **Bascom R**, Frantz ID. Muscle Relaxation in Mechanically Ventilated Infants. **J Pediatr** 1979; 94:439-443. PMID:423033.

2. **Bascom R**, Haponik E, Munster A. Inhalation injury Related to the Use of Petrolatum-Based Hair Grease. **J Burn Care Rehabil** 1984; 5:327-330.
3. **Bascom R**, Kennedy TP, Levitz D, Zeiss CR. Specific Bronchoalveolar Lavage IgG Antibody in Hypersensitivity Pneumonitis from Diphenylmethane Disocyanate. **Am Rev Resp Dis** 1985; 131:463-465. PMID:3977184.
4. **Bascom R**, Bleecker E. Bronchoconstriction Induced by Distilled Water: Sensitivity in Asthmatics and Relationship to Exercise-Induced Bronchospasm. **Am Rev Resp Dis** 1986; 134:248-253. PMID:3090916.
5. Thomas R, Yang W, **Bascom R**, Baser M, Baker J. Peripheral Eosinophilia and Respiratory Symptoms in Rubber Injection Press Operators: A Case-Control Study. **Am J Ind Med** 1986; 9:551-559. PMID:3740072.
6. Green DJ, Sauder LR, Kulle TJ, **Bascom R**. Acute Response to 3.0 ppm Formaldehyde in Exercising Healthy Nonsmokers and Asthmatics. **Am Rev Resp Dis** 1987; 135:1261-1266. PMID:3592401.
7. **Bascom R**, Fisher J, Yang W, Thomas R, Baser M, Baker J. Eosinophilia, Respiratory Symptoms and Pulmonary Infiltrates in Rubber Workers. **Chest** 1988; 93:154-158. PMID:3335147.
8. **Bascom R**, Wachs M, Naclerio RM, Pipkorn U, Galli SJ, Lichtenstein LM. Basophil Influx Occurs After Nasal Antigen Challenge: Effects of Topical Corticosteroid Pretreatment. **J Allergy Clin Immunol** 1988; 81:580-589. PMID:2450113.
9. **Bascom R**, Pipkorn U, Lichtenstein LM, Naclerio RM. The Influx of Inflammatory Cells into Nasal Washings During the Late Response to Antigen Challenge: Effect of Systemic Steroid Pretreatment. **Am Rev Resp Dis** 1988; 138:406-412. PMID:3195836.
10. Freeland HS, Pipkorn U, Schleimer RP, **Bascom R**, Lichtenstein LM, Naclerio RM, Peters SP. Leukotriene B₄ as a Mediator of Early and Late Reactions to Antigen in Humans: The Effect of Systemic Glucocorticoid Treatment *In Vivo*. **J Allergy Clin Immunol** 1989; 83:634-642. PMID:2466880.
11. Goings S, Kulle T, **Bascom R**, Sauder L, Green D, Hebel R, Clements ML. Effect of NO₂ Exposure on Susceptibility to Influenza a Virus in Healthy Adults. **Am Rev Resp Dis** 1989; 139:1075-1081. PMID:2712434.
12. **Bascom R**, Pipkorn U, Proud D, Dunnette S, Gleich GJ, Lichtenstein LM, Naclerio RM. Major Basic Protein and Eosinophil-Derived Neurotoxin Concentrations in Nasal Lavage Fluid After Antigen Challenge: Effect of Systemic Corticosteroids and Relationship to Eosinophil Influx. **J Allergy Clin Immunol** 1989; 84:338-346. PMID:2778240.
13. Churchill L, Chilton FH, Resau JH, **Bascom R**, Hubbard WC, Proud D. Cyclooxygenase Metabolism of Endogenous Arachidonic Acid by Cultured Human Tracheal Epithelial Cells. **Am Rev Resp Dis** 1989; 140:449-459, PMID:2504090.

14. Green D, **Bascom R**, Healey E, Hebel J, Sauder L, Kulle T. Acute Pulmonary Response in Healthy, Nonsmoking Adults to Inhalation of Formaldehyde and Carbon. **J Toxicol Environ Health** 1989; 28:261-275. PMID:2585534.
15. **Bascom R**, Naclerio R, Fitzgerald TK, Kagey-Sobotka A, Proud D. Effect of Ozone Inhalation on the Response to Nasal Challenge with Antigen of Allergic Subjects. **Am Rev Resp Dis** 1990; 142:594-601. PMID:2202248.
16. **Bascom R**, Baser M, Thomas R, Fisher J, Yang W, Baker J. Elevated serum IgE, Eosinophilia, Lung Function in Rubber Workers. **J Toxicol Environ Health** 1990; 45:15-19. PMID:2317085.
17. **Bascom R**, Kulle T, Kagey-Sobotka A, Proud D. Upper Respiratory Tract Environmental Tobacco Smoke Sensitivity. **Am Rev Resp Dis** 1991; 143:1304-1311. PMID:1710879.
18. **Bascom R**, Kagey-Sobotka A, Proud D. Effect of Intranasal Capsaicin on Symptoms and Mediator Release. **J Pharmacol Exp Ther** 1991; 259:1323-1327. PMID:1762079.
19. Willes SR, Fitzgerald TK, **Bascom R**. Nasal Inhalation Challenge Studies with Sidestream Tobacco Smoke. **Arch Environ Health** 1992; 47:223-230. PMID:1596106.
20. **Bascom R**. Differential Responsiveness to Irritant Mixtures: Possible Mechanisms. **Annals N Y Acad Sci** 1992; 641:225-247. PMID:1580473.
21. Chan-Yeung M, Alberts WM, Balmes JR, Barnhart S, **Bascom R**, Bernstein IL, Brooks S, Grammer L, Harber P, Malo JL, Rose C, Schwartz D, Tarlo S, Utell M. Assessment of Asthma in the Workplace. **Chest** 1995; 108:1084-1117.
22. **Bascom R**, Kesavanathan J, Fitzgerald TK, Cheng K-H, Swift DL. Sidestream Tobacco Smoke Exposure Acutely Alters Human Nasal Mucociliary Clearance. **Environ Health Perspect** 1995; 103: 1026-1030. PMID:8605851.
23. Kesavanathan J, **Bascom R**, Swift DL. Nasal Pressure-Volume Relationships Determined with Acoustic Rhinometry. **J Appl Physiol** 1995; 79:547-553. PMID:7592216.
24. Kesavanathan J, Swift DL, Fitzgerald TK, Permutt T, **Bascom R**. Evaluation of Acoustic Rhinometry and Posterior Rhinomanometry as Tools for Inhalation Challenge Studies. **J Toxicol Environ Health** 1996; 48:295-307. PMID:8656451.
25. **Bascom R**, Kesavanathan J, Permutt T, Fitzgerald TK, Sauder L, Swift DL. Tobacco Smoke Upper Respiratory Response Relationships in Healthy Nonsmokers. **Fundamental Appl Toxicol** 1996; 29: 86-93. PMID:8838643.
26. **Bascom R**, Bromberg PA, Costa DA, Devlin R, Dockery DW, Frampton MW, Lambert W, Samet JM, Speizer FE, Utell M. State of the Art Review: Health Effects of Outdoor Air Pollution. Part 1, **Am J Resp Crit Care Med** 1996; 153: 3-50.

27. **Bascom R**, Bromberg PA, Costa, DA, Devlin R, Dockery DW, Frampton MW, Lambert W, Samet JM, Speizer FE, Utell M. State of the Art Review: Health Effects of Outdoor Air Pollution. Part 2, **Am J Resp Crit Care Med** 1996; 153:477-498.
28. **Bascom R**, Fitzgerald TK, Kesavanathan J, Swift DL. A Portable Air Cleaner Partially Reduces the Upper Respiratory Response to Sidestream Tobacco Smoke. **Appl Occ Ind Hyg** 1996; 11:553-559.
29. Hasday J, Dubin W, Fitzgerald T, **Bascom R**. Cigarettes are a Rich Source of Bacterial Endotoxin. **Chest** 1996;109: 63S-64S. PMID:8598160.
30. Baraniuk JN, Ali M, Brody D, Maniscalco J, Gaumont E, Fitzgerald T, Wong G, Yuta A, Mak JC, Barnes PJ, **Bascom R**, Troost T. Glucocorticoids Induce Beta2-Adrenergic Receptor Function in Human Nasal Mucosa. **Am J Resp Crit Care Med** 1997; 155:704-710. PMID:9032216.
31. **Bascom R**, Meggs W, Frampton M, Hudnell K, Kilburn K, Kobal G, Medinski M, Rea W. Report of the Working Group: Neurogenic Inflammation: With Additional Discussion of Central and Perceptual Integration and Non-neurogenic Inflammation. **Environ Health Perspect** 1997; 105 (Supp 2): 531-537.
32. Willes SR, Fitzgerald TK, Permutt T, Proud D, Haley NJ, **Bascom R**. Acute Respiratory Response to Prolonged, Moderate Levels of Sidestream Tobacco Smoke. **J Toxicol Environ Health**, 1998; 53:193-209. PMID:9482351.
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60. He Q, Qian Z, Kong L, Xu Feng, Wei F, Edwards RD, **Bascom R** Respiratory Conditions are Associated with Household Factors in Middle Age Men in Wuhan, China, Presented at **Indoor Air** 2005, September, Beijing, China.
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62. Miller MA, Croft LB, **Bascom R**, Buyantseva LV, Roberts AJ, Goldman ME. Impact of Player Position on Left Ventricular Mass and Left Atrial Size in Retired National Football League Players. **American Society of Echocardiography**, 2006.

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69. Higgins WE, Merritt SA, Gibbs JD, Graham MW, Lu K, Rai L, Yu KC, Cornish DC, Dolina MY, Mahraj RP, Toth JW, Tucakovic M, **Bascom R**. Virtual Navigation System for Bronchoscopic Sampling of Central Chest Lymph Nodes: A Human Feasibility Study, submitted for 2007 American Thoracic Society International Conference, San Francisco, CA.
70. Graham MW, Dolina MY, **Bascom R**, Higgins WE. Graphics-Based Computer System for the Anatomical Labeling of the Major Airways: Initial Development, submitted for 2007 American Thoracic Society International Conference, San Francisco, CA.
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- Improvement **Am J Resp Crit Care Med** 2007; 175:A624; presented at the 2007 American Thoracic Society International Conference, San Francisco, CA.
73. Foster JD, Wojnar MM, Patel VP, **Bascom R**. The Mortality of the Super-Obese in the Medical Intensive Care Unit. **Am J Resp Crit Care Med** 2007; 175:A795; presented at the 2007 American Thoracic Society International Conference, San Francisco, CA.
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 75. Khan M, Sinha A, **Bascom R**. Benchmarking Transbronchial Biopsy Results as a Function of Chest Computerized Tomography (CT) Lesions: A Retrospective Cohort Study. **Am J Resp Crit Care Med** 2008; 177: A404.
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 81. Higgins W, Lu K, **Bascom R**, Mahraj RPM. Quantitative Analysis of the Central-Chest Lymph Nodes Based on 3D MDCT Image Data. **SPIE Medical Imaging**, 2009, Orlando, FL.
 82. W.E. Higgins, P. Taeparsartit, K. Lu, **R. Bascom**, T.W. Allen, and J.D. Gibbs, "Integrated 3D PET-CT for the Planning and Guidance of Bronchoscopy: A Feasibility Study," **Am J Resp Crit Care Med**, vol. 179, pg. A6150, Presented at the American Thoracic Society International Conference April 2009, San Diego, CA.
 83. Betancourt-Ramirez MF, Marron LP, Higgins WE, Khare RS, **Bascom R**. Simulation of Mediastinal Node Site Selection: Comparison of Transverse CT scans and Virtual Navigation System Guidance. **Am J Resp Crit Care Med**. 2009; 179: A6149. Presented at the American Thoracic Society International Conference April 2009, San Diego, CA.

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85. Higgins WE, Graham MW, Gibbs JD, Cornish DC, **Bascom R**, Yu KC, Khan M, Khare R, Marron L, Virtual Navigation System for the Bronchoscopic Sampling of Peripheral Nodules: A Pilot Study, **Am J Resp Crit Care Med.** 2009; 179: A6166, Presented at the American Thoracic Society International Conference May 2009, San Diego, CA.
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88. Kuhlengel TK, **Bascom R**, Qian ZM, Kaminski N, Lindell KO, Tino G, Criner GJ, Simonelli PF, Cordova FC, Patel N, Gibson KF. Exposure of Patients in the Pennsylvania Idiopathic Pulmonary Fibrosis (PA-IPF) State Registry. **Am J Resp Crit Care Med** 2010; 181: A4618. Presented at the American Thoracic Society International Conference, May 2010, New Orleans, LA.
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91. Higgins WE, **Bascom R**, Gibbs JD, Graham MW, Cornish DC, Khan M, Khare R. Image-Guided Bronchoscopic Sampling of Peripheral Lesions: A Human Study. **Am J Resp Crit Care Med** 2010; 81: A5171. Presented at the American Thoracic Society International Conference, May 2010, New Orleans, LA.
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93. Hozella JB, **Bascom R**, Green MJ, Levi BH. Using an Interactive Computer Program to Create an Advanced Directive in Patients with Stage III-IV Chronic Obstructive Pulmonary Disease: A

- Feasibility Study. **Am J Resp Crit Care Med** 2011; 183: A3691. Presented at the American Thoracic Society International Conference, May 2011. Denver CO.
94. Higgins, WE, Lu K, **Bascom R**, Mahraj. Automatic Lymph-Node Station Definition in 3D MDCT Images. **Am J Resp Crit Care Med** 2011; 183:A5381. Presented at the American Thoracic Society International Conference, May 2011, Denver CO.
 95. Higgins, WE, Lu, K, **Bascom R**, Mahraj R, Campbell D, Toth JW. Toward Exhaustive Identification of the Central-Chest Lymph Nodes in 3D MDCT Scans. **Am J Resp Crit Care Med.**, 2011; 183: A3071. Presented at the American Thoracic Society International Conference, May 2011, Denver CO.
 96. Richards TJ, Kuhlengel TK, Choi J, Kaminski N, **Bascom R**. Does Ambient Air Pollution Exposure Modify Longitudinal Disease Outcomes in a Cohort of Patients with Idiopathic Pulmonary Fibrosis? **Am J Resp Crit Care Med** 2011; 183:A5433, Denver, CO.
 97. Higgins WE, Khare R, Cornish DC, **Bascom R**. Physician-Controlled System For Image-Guided Bronchoscopy. **Am J Resp Crit Care Med** 2012; 185: A1116. Presented at the American Thoracic Society International Conference, May 2012, San Francisco, CA.
 98. Bartsch S, Gleeson K, **Bascom R**, Haouzi P. Slow Conducting Diaphragmatic Afferent Fibers Produce Dyspnea In Humans. **Am J Resp Crit Care Med** 2012; 185: A3621. Presented at the American Thoracic Society International Conference, May 2012, San Francisco, CA.
 99. Higgins WE, Cheirsilp R, **Bascom R**, Allen T, Dimmock AE, Kuhlengel T. Automated 3D PET/CT-Based Detection Of Suspect Central-Chest Lesions. **Am J Resp Crit Care Med** 2012; 185: A4431. Presented at the American Thoracic Society International Conference, May 2012, San Francisco, CA.
 100. Higgins WE, Cornish DC, Khare R, **Bascom R**. Technician-Free Bronchoscopy Guidance Using External Sensor Measurements. **Am J Resp Crit Care Med** 2012; 185: A4495. Presented at the American Thoracic Society International Conference, May 2012, San Francisco, CA.
 101. Khare R, **Bascom R**, and Higgins WE, "Technician-free system for image-guided bronchoscopy," SPIE Medical Imaging 2013: Image-Guided Procedures, Robotic Interventions, and Modeling, David R. Holmes, III, and Ziv R. Yaniv, eds., vol. 8671, 9-14 February 2013. Presented at SPIE Medical Imaging, February 2013, Orlando, FL.
 102. Swavely SC, Dimmock AEF, McEvoy CS, **Bascom R**. Inter-Observer (Dis)agreement in Idiopathic Pulmonary Fibrosis Anchor Point Ascertainment. **Am J Resp Crit Care Med** 187; 2013:A1075. Presented at the 2013 American Thoracic Society Annual Meeting, Philadelphia, PA.
 103. Dimmock AEF, Lindell KO, Criner GJ, Simonelli PF, Tino G, Black TR, Gardo L, Jones GM, Tusing L, Chinchilli VM, Kaminski N, **Bascom R**. The GAP Index is Symmetrically Distributed in a Statewide Idiopathic Pulmonary Fibrosis Cohort. **Am J Resp Crit Care Med** 187; 2013:A1091. Presented at the 2013 American Thoracic Society Annual Meeting, Philadelphia, PA.

104. Dimmock AEF, Chinchilli VM, Criner GJ, Simonelli PF, Tino G, Black TR, Gardo L, Jones GM, Lindell KO, Tusing L, Kaminski N, **Bascom R**. The GAP Index Predicts Mortality in a Statewide Cohort of Patients with Idiopathic Pulmonary Fibrosis. **Am J Resp Crit Care Med** 187; 2013:A6086. Presented at the 2013 American Thoracic Society Annual Meeting, Philadelphia, PA.
105. Walters KH, Dimmock AEF, **Bascom R**, Howrylak JA, Miller K, Yost BA. Biobehavioral Risk Factors for Asthma in the Amish and General Populations of Central Pennsylvania. **Am J Resp Crit Care Med**. Presented at the 2014 American Thoracic Society Annual Meeting, San Diego, CA.
106. Higgins WE, Zang X, Byrnes PD, Cheirsilp R, Kuhlengel TK, Dimmock AEF, Toth JW, Gilbert C, **Bascom R**. Multimodal Image-Guided Intervention System for Bronchoscopy and EBUS Fusion. **Am J Resp Crit Care Med**. Presented at the 2014 American Thoracic Society Annual Meeting, San Diego, CA.
107. Higgins WE, Cornish DC, Khare R, Toth JW, Reed MF, **Bascom R**. Sensor-Based Bronchoscopy Guidance System: Human Studies. **Am J Resp Crit Care Med**. Presented at the 2014 American Thoracic Society Annual Meeting, San Diego, CA.
108. Higgins WE, Khare R, Cornish DC, Byrnes PD, Cheirsilp R, Zang X, Toth JW, Reed MF, **Bascom R**. Technician-Free Image-Guided Bronchoscopy System: A Human Study. **Am J Resp Crit Care Med**. Presented at the 2014 American Thoracic Society Annual Meeting, San Diego, CA.
109. Kuhlengel TK, Rudegeair J, **Bascom R**, Howrylak JA. The Impact of Exhaled Breath Condensate Collection on Ventilation in Criticall Ill Patients: A Simulation Study. **Am J Resp Crit Care Med**. Presented at the 2014 American Thoracic Society Annual Meeting, San Diego, CA.
110. Moll M, Dolinay T, Choi AMK, Baron RM, Thomas NJ, Wong HR, **Bascom R**, Howrylak JA. A Comparative Genomics Analysis of Gene Expression Profiles Demonstrates a Distinct and Replicable Molecular Signature for ARDS. Presented at the 2014 Aspen Lung Conference, Aspen, CO.

MAJOR INVITED LECTURES, PRESENTATIONS, AND TESTIMONY:

Grand Rounds

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| 1985 | The Johns Hopkins Hospital Topics in Clinical Medicine. "Occupational Asthma" |
| 1987 | University of Maryland Medical Grand Rounds. "Chlorine Gas Inhalation" |
| 1987 | St. Agnes Hospital Grand Rounds. "Occupational Asthma and Pulmonary Evaluation of Toxic Gas Exposure" |

- 1987 York Hospital, York Pennsylvania, Medical Grand Rounds. "Isocyanate Lung Disease and Silicosis"
- 1988 University of Maryland Medical Grand Rounds. "Occupational Asthma"
- 1989 University of Maryland Medical Grand Rounds. "Sarcoidosis"
- 1990 Medical Grand Rounds, Baltimore Department of Veterans Affairs Medical Center "NonMalignant Manifestations of Asbestos and Silica" December 11.
- 1991 Francis Scott Key Hospital Medical Grand Rounds. "Occupational Asthma"
- 1991 Naval Medical Center Grand Rounds." Occupational Asthma" September 11, Bethesda, MD
- 1991 University of Maryland Medical Grand Rounds, "Your Patient and Maryland's Air Quality" September 18
- 1992 Baltimore County Hospital Grand Rounds. "Environmental Lung Diseases" Sponsored by Agency for Toxic Substances and Disease Registry (ATSDR) June 16, Baltimore, MD.
- 1992 Christiana Hospital, Medical Grand Rounds. "Taking Another Look at Your Asthma Patient: The Role of Household and Occupational Allergens" August 20, Newark, DE.
- 1993 United States Uniformed University of Health Services Medical Grand Rounds. "Environmental Lung Diseases" May 12.
- 1994 Greater Baltimore Medical Center Medicine Grand Rounds. "Evaluation of Indoor Air and Health" November 17.
- 1995 University of Maryland Ophthalmology Grand Rounds, "Mucosal Irritation."
- 1996 Johns Hopkins School of Hygiene and Public Health Division of Occupational Medicine Grand Rounds. "Toxic Gas Inhalation".
- 1997 University of Maryland Department of Medicine Grand Rounds. Latex Allergy January 22.
- 1997 Glaxo Speaker's Bureau. Smoking Cessation Lectures
 Maryland General Hospital Obstetrical and Gynecology Grand Rounds
 June 5
 Inova Hospital Medical Grand Rounds, Falls Church, VA July 15
 Blue Cross/Blue Shield Continuing Education, Owings Mills, MD October 1
- 1997 University of Maryland Department of Medicine Grand Rounds. Is it Asthma or is it Vocal Cord Dysfunction? September 10.

1998 1999 Wilkes-Barre VA Medical Center (Grand Rounds) – “Occupational Lung Disease”, sponsored by Astra Pharmaceutical, Wilkes-Barre, PA, October 8, 1999

Presentations

- 1984 The Johns Hopkins Division of Clinical Immunology Clinical Conference. "Toxic Gas Inhalation"
- 1986 American Academy of Occupational Medicine. "Airway Hyperreactivity after Toxic Gas Inhalation"
- 1986 The Johns Hopkins Division of Clinical Immunology Clinical Conference. "Sick Building Syndrome"
- 1987 The American Lung Association. "Health Effects of Air Pollution"
- 1987 The American Thoracic Society Annual Meeting Sunrise Seminar. "Occupational Asthma"
- 1988 University of Maryland Morbidity and Mortality Conference. "Smoke Inhalation"
- 1988 American Thoracic Society Annual Meeting Sunrise Seminar. "Occupational Asthma"
- 1988 Maryland Thoracic Society Annual Meeting. "Indoor Air Pollution, A Problem for the Next Decade"
- 1989 American Thoracic Society Annual Meeting Postgraduate Course. "Occupational Airways Diseases"
- 1989 State of Maryland Department of the Environment. "Chemical Hypersensitivity Syndrome"
- 1989 Universite de Paris, Hopital de Cochins Research Conference. "Upper Respiratory Responses to Air Pollution"
- 1990 Maryland Academy of Allergy and Immunology Annual Meeting. "Solving Your Patients' Indoor Air Quality Problems"
- 1990 ILSI Risk Science Institute/United States Environmental Protection Agency Conference. Methodology for Assessing Health Risks from Complex Mixtures in Indoor Air. (Organizing Committee) "Upper Respiratory Tract Mucosal Irritation Syndrome"
- 1990 American Thoracic Society Annual Meeting Postgraduate Course. "Impairment, Disability and Medico-Legal Issues"

- 1990 United States Environmental Protection Agency Health Effects Research Laboratory; Research Triangle Park, N.C. Research Conference. "Lessons from Studies of Environmental Tobacco Smoke Sensitivity"
- 1990 Yale University School of Medicine and the John B. Pierce Laboratory (New Haven, Conn). "Differential Responsiveness to Irritant Mixtures: Possible Mechanisms"
- 1990 The Johns Hopkins School of Hygiene and Public Health Department of Environmental Health Sciences. Educational Resource Center Seminar In Occupational Safety and Health, "Chemical Sensitivity. Fact or Fiction"
- 1991 American Thoracic Society Annual Meeting Postgraduate Course. "Pulmonary Surveillance Programs: How to Conduct a Program to Assess and Control Hazards in Industry"
- 1991 American Thoracic Society Annual Meeting Symposium. Variability of Individual Susceptibility to Respiratory Disease. "Differential Responses to Tobacco Smoke"
- 1991 American Thoracic Society International Conference. Symposium: Novel Approaches to Clinical Studies of Environmental Pollutants. "Upper Respiratory Tract: The First Mucosa" 1991 University of North Carolina at Chapel Hill, Ozone Scientific Exchange: Respiratory Function and Inflammation Following Ozone Exposure."Effect of Ozone Inhalation on the Upper Respiratory Tract of Allergic and Non-allergic Subjects" April 7-9
- 1991 IV Seminario Internazionale, Seminari Pneumologici dell-Universita di Ferrara, "Mechanisms of Occupational Asthma" May 30 - June 1, Ferrara Italy.
- 1991 International Conference: Clinical Aspects of Allergic and Nonallergic Rhinitis. Mygind N and Naclerio RM, conveners. "Air Pollution" June 6-7, Copenhagen, Denmark.
- 1991 Association of Occupational and Environmental Health Clinics. "Multiple Chemical Sensitivity. A Respiratory Disorder?" September 21, Washington, D.C.
- 1991 American Industrial Hygiene Association Mid Atlantic Regional Conference. "Chemical Sensitivity Disorders" October 4, Ocean City, MD.
- 1991 Baltimore Veterans Hospital Grand Rounds. "Sarcoidosis" October 22
- 1991 American College of Occupational Medicine (ACOM) State-of-the-Art Fall Conference. Multiple Chemical Sensitivities. What Could This Be?" October 29, St. Louis, MO.
- 1991 Maryland Chamber of Commerce. Worker's Compensation Seminar. "Preventing Indoor Air Quality Problems" November 7, Baltimore, MD.
- 1991 American Lung Association Workshop on California Low Emission/Vehicle Legislation. "Health Effects of Automotive Pollution", November 21, Washington, D.C.

- 1992 American Thoracic Society Postgraduate Course. Scientific Frontiers in Occupational Medicine. "Differential Responsiveness to Irritants" May 16, Miami, FL.
- 1992 American Occupational Health Conference, American College of Occupational and Environmental Medicine (ACOEM). Occupational Lung Disease Update. "Occupational Asthma and RADS" May 2 - May 8, Washington, D.C.
- 1992 Baltimore Regional Council of Governments Traveling to a Cleaner Environment. "Ozone - Health Watch" May 13, Baltimore, MD.
- 1992 American Lung Association of Delaware, Third Annual Symposium. Perspectives in Pulmonary Care - 1992. "Health Effects of Air Pollution" April 28, Wilmington, DE.
- 1992 Transportation Management Association of New Castle County, Clean Air Issues Symposium, Commuter Management Workshop. "Air Pollution: It's a Health Issue" June 29, Newark, DE.
- 1992 Topics in Pulmonary Medicine, Sponsored by the University of Maryland School of Medicine Division of Pulmonary and Critical Care Medicine. "Occupational Pulmonary Disease -- Diagnosis and Disability Standards for Office Practice" September 12 and September 13, Baltimore, MD.
- 1992 The Johns Hopkins University School of Hygiene and Public Health. Ozone Scientific Exchange. Airway and Cellular Responses to Environmental Stimuli, Session Moderator. September 28 - September 30, Baltimore MD.
- 1992 Association of Government Toxicologists/Society of Toxicology - National Capital Area Chapter. Symposium. Toxicology of Mixtures of Chemical Substances, Lister Hill Center Auditorium of the National Library of Medicine, National Institutes of Health, October 1, Bethesda, MD.
- 1992 Sierra Club of Maryland Clean Air and Energy Workshop. "California Clean Car Bill" November 14, Catonsville Community College, Baltimore, MD.
- 1993 Lane County (Oregon) Medical Society. "Health Effects of Air Pollution" January 13.
- 1993 Tennessee College of Occupational Medicine. "Don't Just 'Do Spirometry': Closing the Loop in Workplace Spirometry Programs" March 6 Knoxville, TN.
- 1993 Maryland Thoracic Society. "The Practical Clinician's Guide to Evaluating the Role of the Home and Workplace in Lung Disease" March 7 Baltimore, MD.
- 1993 American College of Occupational and Environmental Medicine Annual Meeting. "Indoor Air Pollution: An Overview" April 26.
- 1993 American College of Occupational and Environmental Medicine Annual Meeting. "Asthma Management in the Occupational Setting" April 29.

- 1993 American College of Occupational and Environmental Medicine Annual Meeting. "Nasal Provocation with Occupational Allergens and Irritants" (Distinguished Lecturer Series sponsored by The American Academy of Allergy and Immunology)
- 1993 American Thoracic Society Postgraduate Course. "Health Effects of Air Pollution" May
- 1993 University of Maryland School of Medicine, Postgraduate Course: Topics in Pulmonary Medicine. "Tools and Terminology for Evaluating Occupational Lung Disease" September 12, Baltimore, MD.
- 1993 Louis Hampton, M.D. Lecture Series, American Lung Association of South Central Pennsylvania. "Air Pollution: It's a Health Issue" November.
- 1993 The Association of School Business Officials of Maryland and the District of Columbia. "Presentation and Review of Technical Bulletin; Carpet and Indoor Air Quality in Schools" December 10.
- 1994 American Conference of Governmental Industrial Hygienists (ACGH). "Models for Understanding Variable Irritant Responsiveness" March 29, Knoxville, TN.
- 1994 American College of Laboratory Animal Medicine (ACLAM) 1994 Forum. "Reproductive Hazards"; "Occupational Medicine"; "Pre-Employment Medical Examinations, Medical Histories and Serum Banking" April 7 - April 9.
- 1994 The Persian Gulf Experience and Health Technology Workshop, A Presentation to the Persian Gulf - Expert Scientific Committee, National Institutes of Health. "Environmental Respiratory Diseases" April 28, Bethesda, MD.
- 1994 Joint American Lung Association/American Thoracic Society International Conference Session. "Background and Overview of ATS State-of-the-Art Document on the Health Effects of Ambient Air Pollution" May 23.
- 1994 American Lung Association International Conference Plenary Session. "Outdoor Air Quality and Indoor Air Pollution" May 24.
- 1994 American College of Chest Physicians Occupational Lung Disease Course. "Chronic Airways Disease"; "Differential Upper and Lower Airway Responsiveness to Irritants - A Common Work-Related Problem"; "Stump the Professor - Case Presentations" June 16 - June 18, Florida.
- 1994 United States - German Workshop on Mechanisms of Airway Injury: Cellular and Molecular Interactions sponsored by the German Government and the National Heart, Lung, and Blood Institute (NHLBI). "Differential Responsiveness to Irritants in the Respiratory Tract" Grosshansdorf, Germany. July 8.
- 1994 The Johns Hopkins Asthma and Allergy Center's 5th Annual Scientific Symposium. Presentation at session honoring Larry Lichtenstein's 60th birthday, "Studies of irritants" October 7.

- 1994 Speaker, Maryland Allergy Society Meeting. "Indoor Air" November 15.
- 1995 Society of Toxicology Inhalation Specialty Section," Irritation: Nuisance or Warning" annual meeting address, March 6.
- 1995 The University of Maryland Topics in Pulmonary Medicine "Asthma and Upper Airway Dysfunction" September 17.
- 1995 "Respiratory Hypersensitivity and the Americas" December Oslo, Norway.
- 1995 University of Maryland Topics in Pulmonary Medicine "Asthma and Upper Airway Dysfunction", September 17.
- 1996 American Academy of Asthma, Allergy, and Immunology. International Meeting, New Orleans "Air Pollution" March 19.
- 1996 Environmental Protection Agency Health Effects Research Laboratory Conference Asthma and the Environment. Workshop Summarizer, May 7 Chapel Hill, North Carolina
- 1996 International Rhinitis Workshop July 18-21. Lecture: Air pollution, occupation and the nose." Chicago, IL.
- 1996 Northeast States Clean Air (NESCAUM) Conference. Lecture: "Health Effects of Air Pollution" Boston, MA.
- 1996 Environmental Protection Agency Symposium: "Susceptibility to Respiratory Hazards." Research Triangle Park, NC September 24-27.
- 1996 International Union Against Tuberculosis and Lung Disease (IUATLD) "Respiratory Environmental Hazards" Paris, France October 3.
- 1996 Rotterdam University Department of Otolaryngology Research Conference: "Studies of Tobacco Smoke Sensitivity" Rotterdam, The Netherlands October 4.
- 1996 Environmental and Occupational Health and Safety Institute, "Mechanisms of Chemical Sensitivity" New Jersey.
- 1996 United States Biosafety Conference, "Occupational Health Program", "Effective Management of an Occupational Health Program".
- 1996 American Academy of Allergy Asthma & Immunology International Conference Annual Meeting, "Overview: Air Pollution and Asthma" New Orleans, Louisiana March 19.
- 1997 Health Effects Institute Workshop. May 17 Laurel Heights Conference Center, San Francisco. Current Approaches to the Study of Subclinical Cardio-Respiratory Effects of Air Pollution, Workshop Summarizer.

- 1997 The Bryn Mawr Lower School Assembly “Bryn Mawr Values and Cigarette Smoking”. January 17.
- 1997 American Academy of Asthma, Allergy and Immunology Annual Meeting Workshop. Tobacco Abuse: What to do? San Francisco February 24.
- 1997 Clinical Conference, Johns Hopkins Asthma and Allergy Center. “Occupational Asthma: Medical and Legal Issues.” Baltimore MD, May 30.
- 1997 Medical-Chirurgical Faculty of the State of Maryland Annual Meeting. “Occupational Asthma: What’s New” May 3.
- 1997 10th Annual Mid Atlantic Biosafety Conference, New Jersey Occupational Health in the Laboratory Animal Facility” Lecture and Seminar. June 4.
- 1997 Mid-Atlantic Regional Conference on Occupational Medicine. “Upper Respiratory Diseases”, Lower Respiratory Diseases” Baltimore September 6.
- 1998 Asthma Awareness Day – Wildwood Conference Center, Harrisburg Area Community College, “Asthma and Pregnancy” - Sponsored by the American Lung Association of Central Pennsylvania, April 4, 1998.
- 1999 Performance Standards and Animal Welfare: Definition, Application and Assessment – Part II, Baltimore Inner Harbor, “Occupational Health and Safety and Medical Surveillance” May 6, 1998.
- 1998 The Fifth Great Lakes Lung Conference – “Environmental Lung Diseases” University at Buffalo CME Program, September 13, 1998
- 1998 Temple University School of Medicine 22nd Annual Fall Family Practice Review Program, Lancaster, “Occupational Medicine – Clinical Considerations”, October 20, 1998.
- 1998 NIOSH Workshop, “Clinical Picture, Recognition, and Prevention of Pneumoconioses and Other Occupational Lung Diseases” McLean, VA, October 30, 1998.
- 1998 The University of Texas @ Houston Health Science Center, “Upper Airway Disorders” Houston, TX, November 8, 1998.
- 2000 Penn State Geisinger Health System and Penn State College of Medicine, 9th Annual Symposium in Clinical Medicine. “Lung Cancer: Prevention, Diagnosis and Treatment”
- 1999 Girl Talk – Chic Hair Design, “Asthma and COPD Management”, Camp Hill, PA, February 6, 1999
- 1999 Health Professionals Network, “New Medical Strategies for Smoking Cessation” Hershey, PA, February 13, 1999.

- 2001 Third Annual Women's Health Ages and Stages, "Gender Differences in Adult Lung Disease", Hershey Hotel, Hershey, PA (sponsored by the Penn State University Department of Continuing Education) April 22, 1999
- 2000 Penn State University - Biomolecular Transport Dynamics Life Science Consortium, "The effect of antigen on the nasal mucosal response to environmental tobacco smoke", University Park, December 8, 1998.
- 1999 Second-year Medicine Clerkship Case Conference, "Pneumonia", Hershey Medical Center, September 7, 1999
- 1999 Current Concepts in Family Medicine, "Asthma Guidelines", Hershey Medical Center, September 14, 1999
- 1999 American Lung Association Speaker's Bureau- "Lung Medications and New Advances", Linglestown, PA, October 4, 1999
- 1999 Case Study Program, "Diagnosis and Treatment of Asthma", Hershey Lodge & Convention Center, Hershey, PA July 10, 1999
- 2000 American Academy of Allergy Asthma & Immunology 56th Annual Meeting – "Understanding Irritant Toxicity: Acute and Chronic Endpoints" Breakfast Seminar #4015, North Tower, Marriott, March 4, 2000
- 2000 Penn State University – Life Sciences Consortium, 3rd Annual Biomolecular Transport Dynamics Symposium "Allergen exposure dysregulates the nasal airway surface fluid response to tobacco smoke exposure. December 1, 2000
- 2002 Symposium in Clinical Medicine, "Lung Cancer: Prevention, Diagnosis and Treatment", Radisson Resort, Hilton Head, N.C., June 16, 1999
- 2001 New York Academy of Sciences – The Role of Neural Plasticity in Chemical Intolerance", Rockefeller University, New York City, NY June 16, 2000
- 2001 American Contact Dermatitis Society of PA, "Mechanisms of Respiratory Irritants & Allergens", Hershey, PA July 12,
- 2001 Temple University School of Medicine 22nd Annual Fall Family Practice Review Program, Lancaster, "Indoor Air", February 7, 2001.
- 2001 Pennsylvania Thoracic Society, Scientific Session – "Occupational Respiratory Medicine: 2001 Update. Philadelphia, PA, September 7, 2001.
- 2002 Chemical Industry Institute of Toxicology, The Nose Knows Workshop. Background presentation: Clinical Pathology and Occupational Epidemiology, September 4, 2002, Research Triangle Park, NC.

- 2002 American College of Occupational and Environmental Medicine State-of-the-Art Conference. "Occupational Disease Series – Occupational Exposures and the Upper Respiratory Tract. October 28, 2002, Baltimore, MD
- 2006 State of Pennsylvania Department of Health. Clinical Aspects of TB: Its Currents Needs and Trends. World TB Day 2006, March 24, 2006, Harrisburg, PA
- 2006 State University of New York New Paltz Conference: The Toxic Aftermath of 9/11: An Emerging Health Crisis. "The LHF/PSU New York Police Officer (NYPO) Health Screening: Looking forward by looking back, June 12, 2006, New Paltz, NY.
- 2008 American Thoracic Society International Conference 2008: Clinical Year in Review. "Occupational and Environmental Respiratory Disease." Toronto, Canada. May 20.
- 2008 American Thoracic Society International Conference: Mini Symposium. Mechanisms and Consequences of Nasal Exposures and Disease. Co-chair and speaker: "Introduction: What the Nose Knows." Toronto, Canada. May 21.
- 2008 Dow Chemical Corporation. "Olefins and the Nose".
- 2009 Penn State Pulmonary and Critical Care Medicine Research Conference. "Image-Guided Peripheral Bronchoscopy" October 6.
- 2009 Pennsylvania IPF Registry: Conference on Idiopathic Pulmonary, Harrisburg Pennsylvania. "IPF and Occupational/Environmental Factors." September 14.
- 2011 National Academy of Science. "Scientific Standards in Pulmonary Disease Research" a presentation to the Committee on Scientific Standards for Studies on Modified Risk Tobacco Products. March 30.
- 2011 National Academy of Science, "Frameworks from OSHA and EPA" a presentation to the Committee on Scientific Standards for Studies on Modified Risk Tobacco Products. March 31.
- 2011 Technical Workshop. Chemical and Consumer Product Industry. Asthma Science Forum. "Clinical Perspectives in Asthma Etiology and Diagnosis. Arlington, VA. May 10, 2011
- 2012 Geisinger Pulmonary Grand Rounds: "Occupational Pulmonary Diseases: Tools for Diagnosis in 2012", Danville PA, October 18, 2012
- 2012 Geisinger Medical Grand Rounds: "Interstitial Lung Disease: I hear those crackles, now what do I do?", Danville PA October 19, 2012
- 2013 Idiopathic Pulmonary Fibrosis Educational Conference, Sheraton, Harrisburg, PA. "IPF: Environmental Considerations" (one lecture to health care professionals, one lecture to patients and caregivers). October 8

Testimony

- 1992 Dr. Bascom provided testimony before the subcommittee Senate Committee on Appropriations, on behalf of the American Lung Association. On May 22, 1992 her expert testimony commented on appropriations for the Environmental Protection Agency for fiscal year 1993.
- 1993 *Low Emission Vehicle Bill*
Dr. Bascom provided testimony, before the Maryland General Assembly, in support of the Low Emission Vehicle Bill.
- 1994 *Hearing Room – Annapolis M.D.*
Dr. Bascom provided a status report, of Clean Air Pollutants, to the United States Senate Appropriations Committee (Senator Baucus, Chairman). On May 20th 1994, her report made the case for cleaner air at the Hearing Room in Annapolis and was covered by the American Lung Association National Press Club briefing.
- 1997 *NAACP v. Engler*, Circuit Court No. 95-38228-CV
Flint, M.I.
Dr. Bascom was qualified by the court as an expert in toxicology, the health effects of air pollution, and the Clean Air Act. The Court . . . adopted by reference the comment of Rebecca Bascom . . . "Because there are a substantial number of individual children who already have a toxic level of lead in their body and are living in areas that have soil reservoirs. And in the context of the NAAQ Standard, additional exposure would not protect their health. The only thing that would protect their health would be reducing exposure."
- 2008 – 2009 *North Middleton Township Board of Supervisors v. Thurd Time World Partners*,
North Middleton, PA
Dr. Bascom served as an Occupational and Environmental Medicine Consultant for the assessment of health risks associated with a proposed Newville Road truck terminal site. The report that she prepared was presented to the North Middleton Township Board of Supervisors on February 24, 2009 by Nathan C. Wolf.
- 2009 National IPF Awareness Week Event. Commonwealth of Pennsylvania, State Legislature Visitation: *IPF Awareness Day*, Coordinated by Dan Beren, attorney, lobbyist and IPF advocate, September 15
- 2013 Pennsylvania-IPF Advocacy Event: Pennsylvania Idiopathic Pulmonary Fibrosis Conference. Parallel events for patients and health care providers, October 8, 2013.
- 2014 *Dickinson Township Board of Supervisors v. Ritner Highway Warehouse Complex*,
Carlisle, PA.
Dr. Bascom served as an Occupational and Environmental Medicine Consultant for the assessment of health risks associated with a proposed Ritner Highway Road Warehouse Complex Site. The report that she prepared was presented to the Dickinson Township Board of Supervisors on February 17, 2014 by Nathan C. Wolf.

