

**storms
give
you
mold?**
Learn about safe &
effective flood and
mold remediation
March 13-15, 2013
Seaview Hotel and
Conference Center
Galloway, N.J.
(near Atlantic City)



BIOAEROSOL.ORG

**Safe and Effective Flood and Mold
Remediation – after
Super Storm Sandy and other
Natural Disasters.**

**7th International Conference &
Training Meeting**
CONFERENCE PROGRAM

Of the
Fungal Research Group Foundation, Inc.,
Albany, New York, USA

March 13 – 15, 2013

at the **Seaview Hotel and Golf Club – Conference Center;**
Galloway, New Jersey

The conference and workshop meeting was organized by the Fungal Research Group Foundation, Inc., Albany, New York, USA in cooperation with the New York Committee of Occupational Safety and Health (NYCOSH) and the New Jersey Work Environment Council (WEC).

This activity was planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the AAFP and the Fungal Research Group Foundation, Inc.

Attention Physicians:

The AAFP CME Credit Systems & Compliance Department and the Commission on Continuing Professional Development (COCPD) approved the activity for **AAFP CME** credit:

This Live activity, Safe and Effective Flood and Mold Remediation – After the Super Storm Sandy and other Natural Disasters., with a beginning date of March 13, 2013, has been reviewed and is acceptable for up to 21.50 Elective credit(s) by the **American Academy of Family Physicians**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Attention ABIH Diplomates:

This event contains many CM hours and may be eligible for ABIH CM credit. See ABIH web site for CM credit criteria. CM credit claimed by Diplomates is based on technical contact hours aligned to the topics related to IH, safety or ethics. Only the technical portions of an event are credited. See the CM credit calculation methods.

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Introduction:

Members of the Fungal Research Group Foundation, Inc., a nonprofit educational and research organization, decided to invite international and national experts to assist the people in the Tri-State Area (New York, New Jersey and Connecticut) and others dealing with problems of flooding and water damage. This is also in response to the urgent needs and public attention devoted to health and safety problems related to unprofessional and inexperienced Superstorm Sandy clean-up efforts by many home and business owners, volunteers, NGOs or contractors that resulted in preventable doctor visits for what people now call “Sandy cough”. Over the last several weeks this has also caught media attention because people are confused about the proper approaches, costs and health concerns. We would like to assist in the efforts to do safe and effective flood and mold remediation, restoration and preservation of valuables. We would like to present and discuss what has been learned from past experience with natural disasters such as flooding, ice and storm damage as it relates to bioaerosols including mold, bacteria, bio-toxins and related hazards. Due to the urgency of the situation a rather early conference date was chosen with very short notice and call for papers. Despite this limitation, we had a very good response from outstanding speakers and high quality papers and presentations. Thanks to all who made this possible.

The Fungal Research Group Foundation, Inc. (FRG-F) serves as the principle organizer of the International Scientific Conferences on Bioaerosols, Fungi, Bacteria, and Mycotoxins in Indoor and Outdoor Environments.

The first professional meeting was held in 1994 and has since continued in 1996, 1998, 2000 in Helsinki, Finland (together with Healthy Buildings 2000), 2003 and most recently in 2011 in Saratoga Springs, New York. This series of conferences brings together a wide range of leading international researchers and health experts devoted to research and education in public health and prevention. Furthermore, the FRG-F produces and publishes key presentations and research for experts and the public interest. We document the scientific meetings in order to advance the science and knowledge of indoor hygiene and safety at the work place. We promote interdisciplinary research and team work by scientists and practitioners, commercial firms and health and safety advocates, employers, unions, and building owners. Over the years, we have helped in the recognition that indoor mold and bacteria from flooding, water damage or building dampness is a public and occupational health issue and needs to be addressed with special care and attention. We have published several books with peer-reviewed research papers and policy statements that are available for purchase and review (see below). The FRG-F collaborates with governmental agencies such as the U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), New York State Department of Health and New York City department of health and other educational institutions or professional organizations (i.e., the Mount Sinai School of Medicine (New York, N.Y.), the Albany Medical Center (Albany, New York), American Industrial Hygiene Association, International Commission Occupational Health (Organic Dust Work-group), Mycotoxin Research Association (Germany), the Canada Mortgage and Housing Corporation and the University of Natal (South Africa) - Centre for Occupational and Environmental Health) and others. The FRG-F supports networking of professionals, physicians, industrial hygienists, building engineers, educators and public health specialists to advance research, practical solutions and prevention.

Publications of the FRGF can be purchased at www.bioaerosols.biz

2013 Conference & Meeting Scientific Committee & Faculty:

Harriet M. Ammann, Ph.D., D.A.B.T. - Olympia, Washington, USA
Pierre L. Auger M.D., M.Sc., FRCPC - Montréal, Québec, Canada
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Mark J. Mendell, Ph.D. - Berkeley, California, USA,
Philip R. Morey, Ph.D., CIH – Environ, Gettysburg, Pennsylvania, USA
Ed Olmsted, CIH - Garrison, New York, USA
Michael Pinto, Wonder Makers Environmental, Kalamazoo, MI, USA
Tuula Putus, M.D., Prof. - Turku, Finland
Joel Shufro, New York Committee for Occupational Safety & Health (NYCOSH)

Conference Organizing Committee:

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Conference Staff

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Conference Organization

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conference site: www.dampnessmold.com

Thank you to all who helped to make this possible!

Tuesday, March 12, 2013:

Welcome Reception 7 pm to 8 pm

Wednesday, March 13, 2013

Conference and Meeting begin:

Registration open: 7:30 am – 5 pm

Part A: Public and Workers Health & Epidemiology and beyond

8:45 Conference opening remarks

Dr. med. Eckardt Jobanning, MD, MSc, Conference Chair,

Christina Tan, MD, MPH -State Epidemiologist/Assistant Commissioner - for New Jersey
Department of Health Commissioner O'Dowd

9:00 - 10:30 Session A: Public Health Concerns and Health Effects (Morey, Yang)

Harriet M. Ammann, PhD, DABT - Olympia, Washington, USA (30 min)

Update on Asthma and Mold: epidemiology, toxicology and epigenetics

Jean Cox-Ganser, PhD (NIOSH) - Morgantown, West Virginia, USA (30 min)

Aspects of NIOSH Studies on Dampness and Mold and related Health Effects.

Pierre L. Auger MD, MSc, Eckardt Jobanning MD, M.Sc.(30 min)

Non- allergic Health effects of Indoor Air Bio-contaminants

10:30 - 11:00 Coffee-break (Poster)

11:00 - 12:00 Session B: Worker Health and Safety & Protection (Mainville,Olmsted)

Michael Levy, OSHA New York (20 min)

OSHA's Approach to Worker Exposure to Mold Hazards during Sandy

Short Introduction to Poster Presentations by Authors: (Horner, Auger)

1. *Catherine Bobenhausen, Gross J, Brandstetter J*:
Beyond Sandy: Focusing On Our Next Steps

2. *Clifford Cooper, MS, CIH*:

Health and Safety Assessments of Flood Damaged High Rise Residential Properties Following Hurricane Sandy

3. *Bernard L Fontaine*, Ottens, P.:
Rapid Structural Drying: A Case Study of Design Conflicts and Failure
4. *Irine H Grant*, MD, Rini, JF:
Neurological Disease After Mold Exposure, Immune/Metabolic Risks & Response to Biofilm-Focused Antifungal Therapy
5. *Arati Inamdar*, PhD, Bennet, JW:
Drosophila melanogaster: A simple model system to evaluate the adverse health effects of exposure to fungal volatile organic compounds from moldy water damaged residences
6. *Robert Krell*:
Mold Remediation Principles and Practices 2013: A Practical Approach from the Field
7. *Bian Liu*, PhD, Tak, S., Silverman, R., et al:
The role of syndromic surveillance in assessing Sandy's health impact
8. *Ralph Moon*, PhD:
Shear Strength Measurements in Building Materials after Submersion in Fresh and Salt Water
9. *Shannon U Morath*, Padhi, S., Bennett, JW:
Sampling of molds from residential buildings damaged during Superstorm Sandy: a preliminary study
10. *John Morawetz*:
Muck, Gut and Mold Remediation
11. *Ritchie Shoemaker*, MD., House, D., Ross, D.:
Cognitive and neurologic symptoms in patient with illness acquired following exposure to water-damaged buildings are associated with structural abnormalities in caudate nucleus, pallidum, hippocampus, cortical gray and forebrain: a volumetric study using NeuroQuant
12. *Wei-Chih Tang*, PhD:
Challenges and Solutions for Airborne and Surface Mold Sampling for Hurricane-Damaged Buildings and Houses
13. *Greg Weatherman*:
Fogging to Clean the Air vs. Poison the Air
14. *Jeff Wilemon*:
Establishing In-Place Structural Drying Goals, a Scientific Approach

12:00 - 1:30 (13:30) Lunch - Please visit Exhibits and Poster Presentations

1:30pm - 2:30 (14:30) Session C: Building investigations – Risk Assessment & Case studies (Ammann, Cox-Ganser)

Phil Morey, CIH, PhD (20 min)

Hurricanes and Mold: What has been Learned?

Denis Charpin, M.D., Prof. - Marseille, France (20 min)

Study of flooded houses in Arles, Southern France

Elliott Horner, PhD (20 min)

A Disaster Is More Than A Water Loss: What Cautions And Aid Are Needed In Flood Disasters?

2:30 - 2:45 Coffee break / Exhibits /Poster

2:45 - 3:45 Session D: Exposure Assessment and Control Research (Charpin, Auger)

Richard Shaughnessy, PhD and P Morey, PhD (20 min)

In the Wake of a Hurricane Disaster, What should Homeowners look for in a Competent Mold Inspection?

Cliff W Davis (20 min)

A Forensic Architects Point of View on Sandy vs. Building Construction

Michael House (20 min)

Formulation of Representative Floodwaters for the Advancement of Building Science Test Standards

3:45 - 4:00 Coffee break / Exhibits /Poster

4:00 - 5:00 Session E: Exposure Assessment and Control Research (Charpin, Auger)

Mark Drozdov (20 min)

Sandy flooded many NYC neighborhoods and buildings on October 29, 2012, yet the worry about mold growth continues!

Bradley Caddick (20 min)

Hurricane Aftermath; Avoiding Remediation and Restoration Pitfalls

Daniel Bernazzani Ph.D., E. Cole, Ph.D. (20 min)

The Role of Science Based Cleaning: Training and Guidance for Volunteers and Flood Victims

5:00 - 6:30 Dinner: on your own

6:30 - 7:30 (F) Grand Rounds: Health and Safety Lessons Learned -Meet the expert Q&A

Karen Kahn, Esq. / Hanna Szczepanowska, PhD – Art and Heritage Item Restoration and Care

Thursday, March 14, 2013 (am)

Registration open: 7:30 am – 5 pm

Focus: Environmental Assessment, Laboratory Methods, Control and Remediation

8:00 - 10:00 G) Assessment & Remediation guidance (Olmsted, Yang)

Christopher D'Andrea, MS, CIH (20 min)

NYC Health Department training volunteers and home owners (20 min)

Steve Canfield (20 min)

Remediation Efforts Of A Home In Piermont, NY After Super Storm Sandy

William Sothern, CIH, J. Caravanos, F. Mirer, PhD (20 min)

Evaluating the Effectiveness of Mold Remediation Methods Post-Superstorm Sandy

Michael McGuinness, CIH, (20 min)

Observations of and Lessons Learned from Hurricane Sandy and Cold Weather Flood Response in New Jersey, November, 2012 to March, 2013 (and beyond)

Carl Grimes (20 min)

Working with Building Occupants

10:00 - 10:30 Coffee-break

10:30 - 12:00 H) Assessment & Remediation (Pinto, Morey)

Claude Mainville, p. Senior Eng., (20 min)

Building investigation of structural problems of damp buildings – Climate change and prefeb walls for baby boomer residences

David Hedman, James Craner, MD, MPH, and Sean Abbott, PhD (20 min)

Structural Pasteurization Technology to Rapidly Remediate Massively Water-Damaged, Mold-Contaminated Buildings: A Case Study

Michael Pinto (20 min)

The “Sandy Solution”

Hanna Szczepanowska, PhD, (20 min)

Fungal pigmentation of art on paper; analysis and remediation

Q & A – Conclusion comments.

12:00 - 1:00 Lunch - Conclusion of Part A – General Lectures and Posters

Thursday 3/14/13 (afternoon)

Conference and Meeting Part B –

Flood and Mold Remediation Training and Hands-on Demonstration

1:00 - 2:00 (14:00) A) **Remediation Guidelines - Building Design & Assessment**

Richard Shaughnessy, PhD, Cliff W Davis

2:00 - 2:20 Coffee break / Exhibits

2:20 - 2:45 (14:45) B) **Basics of Dampness and Mold related Health Concerns and Diseases**

Pierre Auger MD, Eckardt Jobanning MD, Dennis Charpin MD

2:45 - 3:00 Coffee break / Exhibits

3:00 - 4:00 C) **Microbiology, Ecology, Sampling and Laboratory Analysis**

Phil Morey, PhD, CIH & Chin S. Yang, PhD

4:00 - 5:00 D) **Round Table Discussions: Guidelines and Remediation Specifications**

David Newman (NYCOSH), (R. Engler) Fran Gilmore (WEC), W. Levy (OSHA), Ed Olmsted, CIH, Claude Mainville, Eng., Pierre Auger MD, Denis Charpin, MD

5:00 - 6:00 Dinner on your own.

6:30 pm Suggestion: Trip to Atlantic City (Private)

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Friday, March 15, 2013

Focus: Guidelines, Building Investigations, Prevention & Control

8:00 - 9:30 E) **Mitigating and Containing Damage During Emergency Disaster Clean-Up: Protocols, Guidelines and Statutes and Legal issues**

Harriet Ammann, PhD, Clifford Davis, Karin Kahn, Esq:

9:30 - 9:45 Coffee-break

10:00 - 12:00 F) Session J: **Hygiene, Remediation Specs & Equipment demonstrations**

Ed Olmsted, CIH & Claude Mainville, Enq.

12:00 - 1:00 Lunch

1:00 - 2:30 G) **Demonstration Assessment , Drying & Ventilation**

Michael Pinto & Bob Krell

2:30 - 2:45 Coffee break / Exhibits

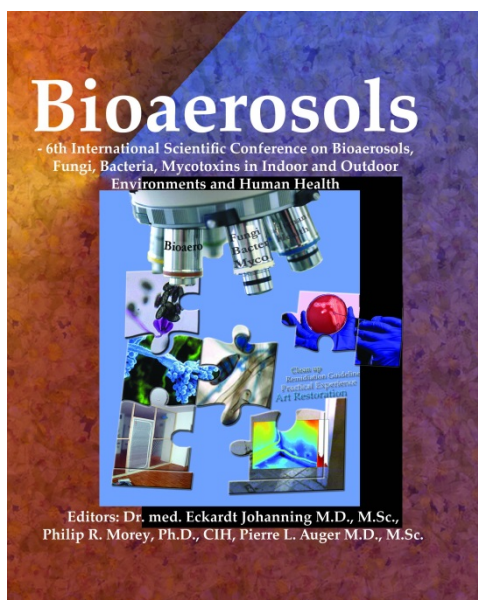
2:45 - 4:00 H) **New Technology and Equipment; Personal Protective Equipment**

Ed Olmsted, CIH & Claude Mainville, Enq. & Jean Cox-Ganser, PhD

4:00 Conference & Meeting Closure

Available at

www.bioaerosols.biz



Speakers and Presenters:

Ammann, Harriet M, PhD, DABT, Affiliate Associate Professor, School of Public Health and Community Medicine, University of Washington, Seattle, WA, Principal and Toxicologist, Ammann Toxicology Consulting LLC

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Caulfield, Steve, PE, CIH, Turner Building Science, LLC, Harrison, ME, USA

Charpin, Denis A., MD, Prof, Department of Pulmonology and Allergy, Marseille University Hospitals, France.

Cooper, Clifford, MS, CIH, Senior Industrial Hygienist, VERTEX, New York, USA

Cox-Ganser, Jean, PhD, Research Team Supervisor, Field Studies Branch Division of Respiratory Disease Studies National Institute for Occupational Safety and Health Centers for Disease Control and Prevention, Morgantown, WV

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House, Michael, Security Systems Technology, URS | Infrastructure and Environment, Germantown, MD

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McGuinness, Michael, CIH, Building Pathologist, R.K. Environmental, Phillipsburg, NJ, USA

Moon, Ralph, PhD, HSA Engineers & Scientists, Tampa, Florida, USA

Morath, Shannon U., (student), Rutgers University, New Brunswick, NJ, USA

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Morey, Philip R., Ph.D., CIH, Environ International Corporation, Principal Consultant-Microbiology, Gettysburg, Pa, USA

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Olmsted, Ed, CIH, Olmsted Environmental, Garrison, N.Y., USA

Pinto, Michael, President, Wonder Makers Environmental, Kalamazoo, MI, USA

Shaughnessy, Richard J, PhD, Program Director Indoor Air Research, University of Tulsa, USA

Shoemaker, Ritchie, MD, Center for Research on Biotxin Associated Illnesses, Pocomoke City, MD, USA

Sothorn, William (Bill), CIH, Microecologies, Inc, New York, NY, USA

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Tang, Wei, PhD., Laboratory Director, QLab, Cherry Hill, NJ, USA

Weatherman, Greg, CMC, aerobioLogical Solutions, Inc., Arlington VA, USA

Wilemon, Jeff, Building Scientist, HSA Engineers & Scientists, Tampa, FL, USA

Yang, Chin S., PhD, Prestige EnviroMicrobiology, Voorhees, NJ, USA

Exhibitors:

Gold Level:

Alistagen Corporation, New York, N.Y. (alistagen.com)

Silver Level:

Anabec, Inc., Clarence, N.Y. (anabec.com)

HSA Engineers and Scientists, Tampa, Fl. (hsa-env.com)

Bronze Level:

AeroSolver, LLC, Hallendale, Fl. (aerosolver.com)

Innovative Cleaning, Grand Rapids, MI (foamit.com)

Others:

Environmental Hazards Services, LLC (Richmond, VA)

Indoor Air Solutions, Inc. (Pottstown, PA)

AerobioLogical Solutions, Inc. (Arlington, VA)

Real Time Labs (Carrollton, Texas)

Schluter-Systems LP (Plattsburgh, NY)

US Micro Solutions (Greensburg, PA)

IQAir North America, Inc. (Santa Fe Springs, CA)

EMSL Analytical, Inc. (Charleston, SC)

Q Lab (Cherry Hill, NJ)

Green Lion, LLC (Englishtown, NJ)

Unitech Services Group (Bay Shore, NY)

DOL/OSHA (New York, NY)

A special *thank you* for their interest and support of the conference meeting!

Please visit their information tables.

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The purpose of Fungal Research Group Foundation, Inc. and its activity is to serve the health and social well-being of the public and workers, individually and collectively. Public and occupational/environmental health practice must be performed according to the highest professional standards and ethical principles. Public and occupational or environmental health professionals must contribute to environmental, occupational and community health.

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For further details please go to: <http://www.accme.org/requirements/accreditation-requirements-cme-providers/standards-for-commercial-support>. None of the speakers received a honorarium, however, in special cases travel/hotel stipends have been provided based on needs.

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