

NIOSH Science Awards 2015

James P. Keogh Award

Alice Hamilton Award

Bullard-Sherwood (r2p) Award

Director's Intramural Award

April 23, 2015 | Cincinnati, OH

2015 James P. Keogh Award



Recognizing one current or former NIOSH employee for exceptional service in occupational safety and health

Presented to
Kathleen Kreiss, M.D.



Investigating Emerging Occupational Health Problems

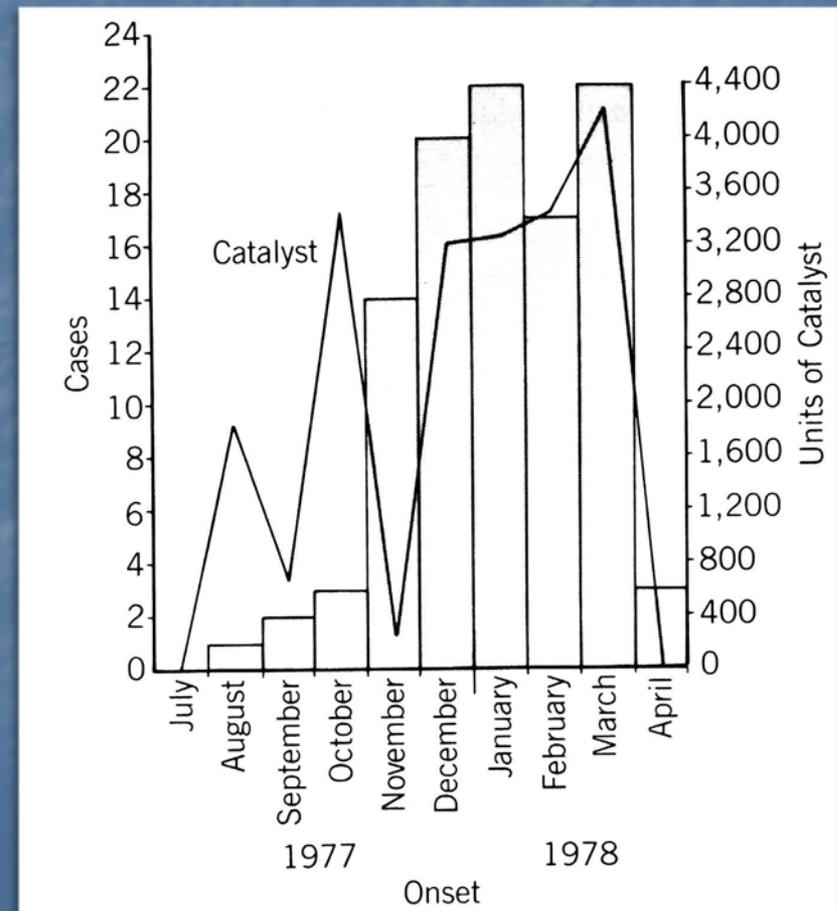
Kathleen Kreiss, M.D.
Keogh Award Presentation
April 24, 2015

“The findings and conclusions in this report are those of the author and do not necessarily represent the views of the National Institute for Occupational Safety and Health”



Dimethylaminopropionitrile (DMAPN)

- New catalyst in foam manufacture in 8/77
- Resolution of incident cases in 4/78
- Bladder neuropathy
- Grouting agent

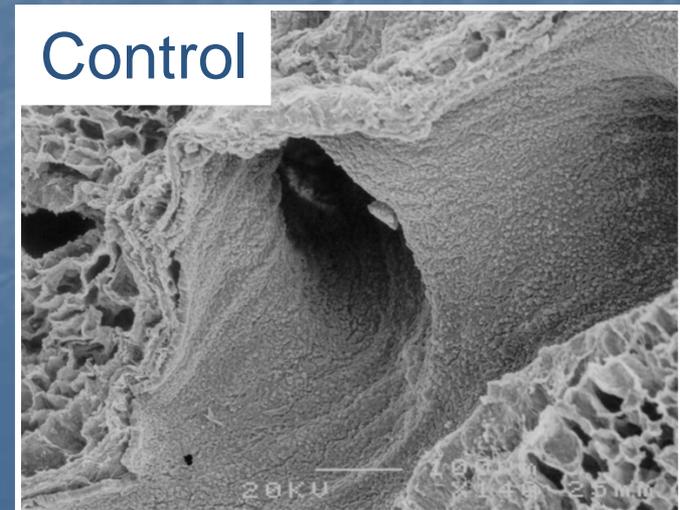
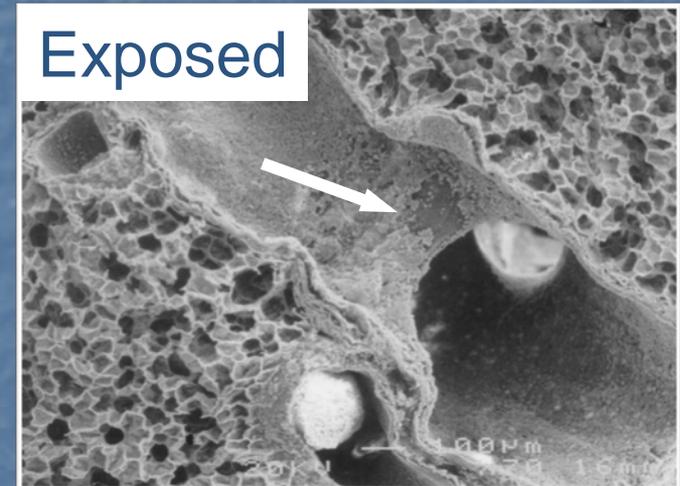


Who suspects new causes of occupational disease?

<u>New cause and disease</u>	<u>Source</u>
■ DMAPN, bladder neuropathy	Workers
■ <i>M. immunogenum</i> , hypersensitivity pneumonitis	Workers/UAW
■ Nylon flock, flock-workers lung	Occ doc
■ Diacetyl, obliterative bronchiolitis	Wife, lawyer
■ Indium, pulmonary alveolar proteinosis	NIOSH doc

Commonalities of Establishing a New Cause

- Follow back of suspected sentinel case cluster to workplace
- Multi-disciplinary epidemiology
- Laboratory investigation
- Temporality



Barriers to Investigation

- Unknown agents
- New methods needed
- Worker intimidation
- Uncooperative companies





From Cause to Prevention

- Those who control the conditions of work need to be convinced of cause
- Regulatory agencies sometimes do not act on our discoveries of emerging causes of disease
- Increase emphasis on giving workers tools to protect themselves



NIOSH's Unique Opportunities

- Public input about emerging issues
- Timely public health response by experts
- Meeting causation criteria
- Partnerships with universities to find solutions and leverage our opportunities
- Support of state/local public health



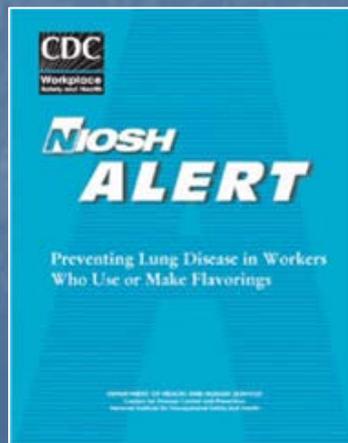
Closing Thought

Half of what you learned in school is wrong, but you don't know which half:

- Textbook definitions
- Hierarchy of controls inadequate
- Natural history of disease important
- Absence of evidence is not evidence of absence

Thank You

- DRDS
- HELD
- DSHEFS
- DART
- NPPTL
- EID
- Epidemic Intelligence Service
- State and Local Health Departments in CA, MO, RI, MA, NE, IA, WI



Alice Hamilton Award



For excellence in occupational safety and health

Award Categories

- Education and Guidance
- Engineering and Controls
- Epidemiology and Surveillance
- Exposure and Risk Assessment
- Methods and Laboratory Science

Education and Guidance

Bruce Bernard, Kim Brinker, Roland Berryann, Yvonne Boudreau, Scott Brueck, Nancy Burton, Claire Caruso, Aitor Coca, Kristin Cummings, Maryanne D'Alessandro, Lisa Delaney, Marie de Perio, Chad Dowell, Judith Eisenberg, Renee Funk, Brenda Jacklitsch, Max Kiefer, F. Selcen Kilinc-Balci, Bradley King, Jung Hyun Kim, Kathleen MacMahon, Lauralynn McKernan, Mark Methner, Leslie Nickels, R. Todd Niemeier, Sophia Ridl, Ted Scharf, Ronald Shaffer, Jill Shugart, Warren Williams, additional authors from NCEZID, OSHA, EPA, and OSSAM

Ebola Interim Guidance Products

Education and Guidance Honorable Mention

Sherry Baron, Leslie Nickels, Christy Forrester,
Maureen Sheahan, Laura Stock

Caring for yourself while caring for others: training
for homecare workers.

[2014]. Cincinnati, OH: U.S. Department of Health and Human Services,
Public Health Service, Centers for Disease Control and Prevention,
National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2015-102.

Washington DC

Education and Guidance Honorable Mention

Thomas Cunningham, Ray Sinclair

Application of a model for delivering occupational safety and health to smaller businesses: case studies from the U.S.

[2014]. Saf Sci: Epub ahead of print, 2014 Aug.

Cincinnati-Taft

Engineering and Controls

Ren Dong, Daniel Welcome, Donald Peterson,
Xueyan Xu, Thomas McDowell, Christopher
Warren, Takafumi Asaki, Simon Kudernatsch,
Antony Brammer

Tool-specific performance of vibration-reducing gloves
for attenuating palm-transmitted vibrations in three
orthogonal directions.

[2014]. *Int J Ind Ergon* 44(6):827–883.

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Engineering and Controls Honorable Mention

Daniel Welcome, Ren Dong, Xueyan Xu,
Christopher Warren, Thomas McDowell

The effects of vibration-reducing gloves on
finger vibration.

[2014]. *Int J Ind Ergon* 44(1):45–59.

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Epidemiology and Surveillance

W. Karl Sieber, Cynthia Robinson, Jan Birdsey,
Guang-Xiang Chen, Timothy Hitchcock,
Jennifer Lincoln, Akinori Nakata, Marie Sweeney

Obesity and other risk factors: the national survey
of U.S. long-haul truck driver health and injury.

[2014]. *Am J Ind Med* 57(6):615–626.

Cincinnati: Hamilton, Taft; Morgantown

Epidemiology and Surveillance Honorable Mention

Tania Carréon, Misty Hein, Kevin Hanley,
Susan Viet, Avima Ruder

Coronary artery disease and cancer mortality in a cohort of workers exposed to vinyl chloride, carbon disulfide, rotating shift work, and *o*-toluidine at a chemical manufacturing plant.

[2014]. *Am J Ind Med* 57(4):398–411

Cincinnati

Epidemiology and Surveillance Honorable Mention

Srinivas Konda, Audrey Reichard,
Hope Tiesman, Scott Hendricks

Non-fatal work-related traumatic brain injuries treated
in US hospital emergency departments, 1998–2007.

[2014]. Inj Prev: Epub ahead of print, 2014 Sep.

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Exposure and Risk Assessment

Eric Esswein, John Snawder, Bradley King,
Michael Breitenstein, Marissa Alexander-Scott,
Max Kiefer

Evaluation of some potential chemical exposure risks during flowback operations in unconventional oil and gas extraction: preliminary results.

[2014]. *J Occup Environ Hyg*: 11(10):D174–D184.

Denver—Cincinnati-Taft

Exposure and Risk Assessment Honorable Mention

Kristin Musolin, Jessica Ramsey,
James Wassell, David Hard

Prevalence of carpal tunnel syndrome among
employees at a poultry processing plant.

Appl Ergon: 45(6):1377–1383.

Cincinnati-Hamilton—Morgantown

Methods and Laboratory Science

Sreekumar Othumpangat, John Noti,
Donald Beezhold

Lung epithelial cells resist influenza A infection by inducing the expression of cytochrome c oxidase VIc which is modulated by miRNA 4276.

[2014]. *Virology* 468–470:256–264.

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Methods and Laboratory Science

Eun Gyung Lee, Larry Lee, Carsten Möhlmann, Michael Flemmer, Michael Kashon, Martin Harper, Taekhee Lee, Seung Won Kim, Jhy-Charm Soo

Evaluation of pump pulsation in respirable size-selective sampling: part I. Pulsation measurements.
[2014]. *Ann Occup Hyg* 58(1):60–73.

Evaluation of pump pulsation in respirable size-selective sampling: part II. Changes in sampling efficiency.

[2014]. *Ann Occup Hyg* 58(1):74–84.

Evaluation of pump pulsation in respirable size-selective sampling: part III. Investigation of European standard methods.

[2014]. *Ann Occup Hyg* 58(8):1006–1017.

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2014 Bullard-Sherwood r2p Award

For outstanding application of occupational safety and health research

Award Categories

- Knowledge
- Intervention
- Technology



Recognizing excellence in translating research into practice

Knowledge

Steven Wurzelbacher, Alysha Meyers, David Utterback, Teresa Schnorr, P. Timothy Bushnell, Stephen Bertke, Jennifer Bell, Jill Raudabaugh, Regina Pana-Cryan, John Sestito, Raymond Sinclair, Abay Getahun Asfaw, Anasua Bhattacharya, James Harris, Jamie Lancaster, Chih-Yu Tseng, Jean Geiman, Patricia Laber, Lisa Thomas, Chia Wei, Steven Allee, Denise Giglio, Kim Jenkins, Lian Luo, Cheryl Estill, Susan Nowlin, Srinivas Konda, Audrey Reichard, Brian Lowe, Ming-Lun Lu, Mary O'Connor, Joanna Watson, Vernon Anderson, Tapas K. Ray, Stephen Hudock, Elizabeth Whelan, Kathleen Waters, Steve Inserra, Sarah Felknor, Marie Sweeney, Amy Mobley, Greg Hartle, Dovie Randolph, Rick Cassinelli, Dawn Castillo, Corey Butler, Megan Casey, Lynne Pinkerton, Chia-Chia Chang, Gregory Wagner, Sara Tamers, Charles Oke, Melissa Corcoran, Frank Hearl

Center for Workers' Compensation Studies

Atlanta • Anchorage • Cincinnati • Denver • Morgantown • Pittsburgh • Washington

Intervention

Rebecca Guerin, Andrea Okun, Carol Stephenson, Rachel Ullah, Amy Filko, Vanessa Williams, John Lechliter, Gino Fazio, Stephen Leonard, Seleen Collins, Joseph Cauley

New and Updated NIOSH Youth@Work—Talking Safety Curriculum

Cincinnati-Taft—Washington, DC

Intervention Honorable Mention

Duane Hammond, Andrew Cecala, Jay Colinet, Alberto Garcia, Kenneth Mead, Alan Echt, Stanley Shulman, Michael Gressel, Jeanne Zimmer, Liming Lo, Gerald Joy, Ronald Kovein, David Marlow, Misty Hein, Daniel Farwick, Dawn Farwick, Trudi McCleery, Ronald Hall, Jennifer Topmiller, G. Scott Earnest, Brenda Jones, Gino Fazio

Silica Dust Controls for Asphalt Pavement Milling Machines

Cincinnati-Hamilton-Taft

Technology

Thomas Bobick, Eugene McKenzie, Douglas Cantis

Development, Evaluation, and Commercialization of the
NIOSH Multi-functional Guardrail System

Morgantown

2014 Director's Intramural Award for Extraordinary Science

Recognizes outstanding contributions by intramural scientists and support staff to science excellence at NIOSH

Award Categories

- Distinguished Career Scientist
- Early Career Scientist
- Scientific Support

Distinguished Career Scientist

Raymond Roberge, M.D.



Pittsburgh

Early Career Scientist

Cara Halldin, Ph.D.



Morgantown

Scientific Support

Jerry Kratzer



Cincinnati-Hamilton

Congratulations to all of our winners!

Reception immediately following the awards ceremony