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Education

PhD Northwestern University, Evanston IL 1969

BA DePauw University, Greencastle, IN 1965

Career History

1969-1999 - Thirty years experience in diverse areas of organic chemistry at DuPont ranging from basic/discovery research to process development and scale-up.

2000-2003 Delaware Technical and Community College - taught CHM 150, 151 Chemical Principles I, II in the Chemistry and Biology Department

2001-2005 Contract employee with DuPont in Central Research and Engineering Polymers Departments

2000-present Volunteer in the Scientific Research and Analytical Laboratory in the Winterthur Conservation Division.

2010-present Adjunct Associate Professor in the Art Conservation Department University of Delaware

Communications

- Chaired committee and taught training sessions for new BS level chemists in special topics of organic chemistry within the division at DuPont.
- Presented DuPont research at Gordon Research Conferences.
- Served as a referee for articles submitted to The Journal of Organic Chemistry.

- Business Industry Alliance – Gave periodic presentations to Delaware middle school students on careers in science. Conservation science at Winterthur was the topic.
- Taught the Chemistry Review course in the WUDPAC program in Art Conservation
- Presented the seminar -

Conservation Science: The Forensics of Cultural Materials

To the following groups

Delaware ACS section (2X)
 Princeton ACS section
 South Jersey ACS section (2X)
 Delaware ACS Chemistry Veterans
 Chromatography Forum of the Delaware Valley Annual Symposium

Collaborations

Patrick McGovern, University of Pennsylvania Museum of Anthropology and Archeology

Joseph B. Lambert, Trinity College, San Antonio, Texas

Getty Conservation Institute

Professional Affiliations

American Chemical Society

The Chemical Heritage Foundation

Delaware Academy of Chemical Sciences, Board member

Delaware ACS Chemistry Veterans – Steering Committee

American Association for the Advancement of Science

Publications and posters

A hint of Orient in an Americana collection: Investigations into Chinese export furniture at Winterthur Museum

Maria João Petisca, Stéphanie Auffret, Catherine Matsen, W. Christian Petersen, Jennifer Mass & Mark Anderson

Engaging Conservation: Collaboration across disciplines

A rare reference resource: Five Lakota painted buffalo robes from Standing Rock Reservation—
Nina Owczarek, William Wierzbowski, and W. Christian Petersen

PRE-HISPANIC DISTILLATION?

A BIOMOLECULAR ARCHAEOLOGICAL INVESTIGATION

Patrick E. McGovern, Fabian Toro, Gretchen R. Hall, Theodore Davidson, Laura Almendros-López, Patricia Colunga-GarcíaMarín, Daniel Zizumbo-Villarreal, Fernando González-Zozaya, Katharine (Prokop) Prigge, George Preti, W. Christian Petersen, and Mike Szelewski

Deconstructing the stratigraphy of color and design in the artistic works of Henry Ossawa Tanner

Amber Kerr, Kristin deGhetaldi, Brian Baade, Zachary Voras, W. Christian Petersen, Thomas P. Beebe 17th Triennial Conference – paintings ICOM-CC Melbourne Australia 2014

Lacquered furniture in an Americana collection: Investigations into Chinese export furniture a

Winterthur Museum, Delaware, USA Stephanie Auffret, Catherine Matsen, Maria Joao Petisca, W. Christian Petersen, Mark Anderson Studies in Conservation 2014

Organic coatings found on Tibetan Buddhist gilt copper alloy statuary at the American Museum of Natural History

Karl U. Knauer, Elizabeth Nunan, Judith Levinson*, Adriana Rizzo, W. Christian Petersen, Jennifer Mass, Katherine Anne Paul

HPLC-PDA Analysis of Atypical Mahoganizing Stains in an Eighteenth-Century Connecticut

High Chest Finish; Jennifer Mass, Maarten van Bommel, W. Christian Petersen, Catherine R. Matsen

FTIR and MicroRaman Surface Characterization of Polychrome-Decorated Western Han

Bronze *Ming-Ch'i* (spirit vessels): a *Hu*, a *Bianhu*, and a *Fanghu*

Jennifer L. Mass, W. Christian Petersen and Catherine Matsen

Solvent Gels for the Cleaning of Works of Art: The Residue Question

Dusan Stulik, David Miller, Herant Khanjian, Richard Wolbers, Janice Carlson, W. Christian Petersen

The Getty Conservation Institute 2004

1,1,2,2-Tetrafluoro-N,N-dimethylamine: a New Selective Fluorinating Agent

Viacheslav A. Petrov, Wonpyo Hong, W. Christian Petersen, and Steve Swearingen
Journal of Fluorine Chemistry, **2001**, 109, 25

1,1,2,2-Tetrafluoro-N,N-dimethylamine: a New Selective Fluorinating Agent

Viacheslav A. Petrov, Wonpyo Hong, W. Christian Petersen, and Steve Swearingen
Conference on Fluorinated Bioactive Compounds in the Agricultural and Medical Fields,
Brussels, Belgium, September, 1999

Chlorsulfuron Determination on Soil Extracts by Enzyme Immunoassay; M. M. Kelly, E. W.
Zahnow, W. C. Petersen, and S. T. Toy, Agricultural and Food Chemistry, **1985**, 33, 962

Herbicide Sulfonamides, 6,060,432

Herbicide Pyridine N-Oxide Sulfonylureas, U.S. 4,900,353

Herbicide Pyridine N-Oxide Sulfonylureas, U.S. 4,789,465

Herbicide Sulfonamides, U.S. 4,772,313

Herbicide Sulfonamides, U.S. 4,743,295

Herbicide Sulfonamides, U.S. 4,683,000

Triazine-substituted Herbicide Azobenzenesulfonamides, U.S. 4,678,497

Herbicide Sulfonamides, U.S. 4,675,045

Herbicide Azobenzenesulfonamides, U.S. 4,585,470

Herbicide Sulfonamides, U.S. 4,555,261

Herbicide s-Triazines U.S. 4,492,599

Herbicide Sulfonamides, U.S. 4,491,467

Process of Preparing Aromatic Aldehydes by Reacting Selected Aromatic Compounds with
Formamide Acetate and an Organic Acid Anhydride, U.S. 4,394,314

Herbicide Ureas and Isoureas U.S. 4,370,480

Herbicide Sulfonamides, U.S. 4,332,611

Photoinduced Reactions of Aromatic Nitro Compounds with Borohydride and Cyanide, W.
Christian Petersen and Robert L. Letsinger; Tetrahedron Letters, No. 24, 2197, **1971**