

## ***MARGUERITE L. LENG, Ph.D.***

### **PROFESSIONAL PROFILE**

Career spans 35 years in pesticide regulatory affairs. Summarized data for tolerance petitions from studies on toxicology, metabolism, residues, and environmental fate. Organized and prepared responses to EPA Special Reviews. Estimated worker exposure. Prepared review monographs for panels of international experts convened by agencies of the United Nations. Participated in national and international meetings on food safety. Developed worldwide contacts with colleagues in industry, government and academia.

### **AREAS OF EXPERTISE**

#### **Pesticide regulations**

domestic, foreign, international

#### **Technical writer, reviewer, editor**

papers, articles, chapters, books

#### **Food safety evaluation**

toxicology, residues, metabolites

#### **Chairman / member of committees**

symposium organizer, speaker

#### **Worker exposure assessment**

mixers, loaders, pickers

#### **Foreign languages**

fluent in French, several others

### **ACCOMPLISHMENTS**

#### ***REGISTRATION EXPERT / AGROCHEMICAL PRODUCTS***

##### **U.S. Industry / Environmental Protection Agency**

- Devised and instituted a coded filing system for research reports assembled for preparation of tolerance petitions, and for all documents submitted to EPA.
- Wrote or co-authored 20 scientific publications, as well as more than 50 corporate research reports used for registration purposes.
- Participated on several product business teams as advisor on what studies are needed for registration of new products, and for new uses of old products.
- Submitted petitions and obtained tolerances for residues of several new and older active ingredients which allowed registration of first uses on food or feed crops.
- Served as scientific advisor to attorneys for a "Rebuttable Presumption Against Registration" and during hearing on proposed cancellation of a major herbicide.
- Testified as primary witness in a successful suit against EPA for unauthorized use of proprietary data to support registrations of competitors' products.

- Supplied valuable support information to attorneys, as needed for preparation of comments to correct errors in Drinking Water Health Advisories proposed by EPA for several herbicides and fumigants.
- Wrote and submitted comments to EPA on proposed 1990 revision of their policy on *Labeling and Procedures for Export of Unregistered Pesticides* from the U.S.A.
- Convinced U.S. Department of Commerce to delete several herbicides from list of regulated chemicals requiring a special export license prior to each shipment.
- Advised U.S. Office of Management and Budget (OMB) to not approve an EPA census questionnaire which would have required pesticide manufacturers to report sensitive financial data that could cause disastrous consequences if revealed to competitors in the industry, particularly in foreign countries.
- Participated actively as Dow representative on National Agricultural Chemicals Association's International Registration Committee (1986-1990), and on NACA Public Health and Toxicology Committee (1979-1986, vice-chairman in 1981-1983) in Washington, D.C., and represented NACA on Toxicology Committee of the International Group of National Associations of Manufacturers of Agrochemical Products (GIFAP) in Brussels, Belgium (1979-1989).

#### **United Nations / International Agencies**

- Proposed and obtained a 10-fold increase in Acceptable Daily Intake (ADI) set by World Health Organization for a major insecticide used worldwide on food crops.
- Proposed and obtained the deletion of several major herbicides from the U.N. *Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments*, by providing clarification of minor regulatory actions taken against them in certain countries.
- Wrote interpretive summaries of many toxicology and residue studies submitted to panels of experts convened by the World Health Organization (WHO) and the Food and Agriculture Organization (FAO) to review pesticides used widely on food commodities of importance in international trade, and responded to questions posed by these groups during their annual joint meetings in Rome or Geneva.
- Provided key information which prevented potential carcinogen classification of several pesticides by advisory groups convened by the International Agency for Research on Cancer (IARC) and by the European Economic Community (EEC).
- Invited as the first industry person to participate as an expert on a Task Group convened by the United Nations International Program on Chemical Safety (IPCS) to write an Environmental Health Criteria Document for a major herbicide.

- Responded to questions about Dow products from national government delegates during international meetings of the U.N. Codex Committee on Pesticide Residues (CCPR) held annually in The Hague, The Netherlands.
- Prevented ban of a fungicide needed to preserve fresh citrus fruit exported from the U.S., by providing rebuttal to reports of Japanese studies which indicated that very high doses of the chemical could cause cancer of the bladder in male rats.

### ***OUTSIDE ACTIVITIES RELATED TO REGULATION OF PESTICIDES***

- Served on national and international Task Forces concerned with regulation of exports and requirements for Prior Informed Consent (PIC) and other issues related to the international General Agreement on Tariffs and Trade (GATT).
- Elected Chairman of the American Chemical Society's Division of Agrochemicals in 1981 and Program Chairman in 1980; represented Agrochemicals Division on ACS National Council as Alternate Councilor during 1984-1991 and as Liaison to the ACS Board/Council Committee on Environmental Improvement since 1989.
- Organized and chaired a symposium on *The Responsibility of the Chemist to Society* which was published by the ACS and distributed to all Members of Congress and to many universities in 1980.
- Co-organized a week-long special conference on *The Pesticide Chemist and Modern Toxicology*, and edited the proceedings published by the ACS in 1981.
- Presented paper on *Consequences of Reregistration on Existing Pesticides* in a symposium on *Regulations: A Driving Force in the Evolution of Agrochemicals* at 1989 ACS national meeting; published by ACS as professional reference in 1991.
- Wrote chapter on U.S. *Government Requirements for Pesticide Residue Analyses and Monitoring Studies* published by Wylie in textbook on *Analysis of Pesticides Residues* of which 1600 copies were sold worldwide between 1980 and 1990.
- Wrote review chapter as invited expert on *Chlorophenoxyalkanoic Acids* for new edition of Ullmann's Encyclopedia of Industrial Chemistry, published in 1987.
- Lectured on *Foreign and International Regulation of Pesticides* in five special courses sponsored by Executive Enterprises, and wrote chapter on same topic for *Pesticides Regulation Handbook* published in 1983 by Washington attorneys.

### **PROFESSIONAL EMPLOYMENT HISTORY**

**The Dow Chemical Company**, Midland, Michigan

1956 - 1990

#### **• Agricultural Products Department**

Product Registration Manager	(1988 - 1990)
Manager of International Regulatory Affairs	(1986 - 1990)
Registration Specialist	(1966 - 1973)

- Senior Research Chemist (1956 - 1959)
- **Health and Environmental Sciences Department**
  - Research Associate for International Regulatory Affairs (1980 - 1986)
  - Senior Registration Specialist for Agricultural Products (1973 - 1980)
- University of Michigan Hospital**, Ann Arbor, Michigan 1950 - 1953
- **Montgomery Allergy Research Laboratory**
  - Research Assistant
  - Senior Chemist
- National Research Council**, Saskatoon and Ottawa, Canada 1947 - 1949
- **Prairie Regional Laboratory** - Research Chemist
- **Analytical Laboratory** – Chemist
- **Canadian Journal of Research** - Editorial Assistant

## EDUCATION

- Ph.D. in Biochemistry** (minors - Physiology, Organic Chemistry) 1956  
Purdue University, West Lafayette, Indiana, U.S.A.
- M.Sc. in Chemistry**, as Life Insurance Medical Research Fellow 1950  
University of Saskatchewan, Saskatoon, Saskatchewan, Canada
- B.Sc. in Honours Chemistry** (minors - Physics, Mathematics) 1947  
University of Alberta, Edmonton, Alberta, Canada

## PROFESSIONAL AFFILIATIONS

- **American Chemical Society (ACS)**  
Agrochemicals Division - Chairman 1981, Program Chairman 1980, Elected Fellow in 1976, Executive Committee, Alternate Councilor, Chairman of Awards Committee, Chairman of Hospitality Committee, Liaison to Board/Council Committee on Environmental Improvement, Symposium Organizer, Special Conference Co-organizer, many others.
- **Reviews of Environmental Contamination and Toxicology**  
International Editorial Advisory Board
- **International Union of Pure and Applied Chemistry (IUPAC)**  
1994 International Congress of Pesticide Chemistry, Program Committee
- **American Institute of Chemists (AIC)**, Elected as Fellow in 1986
- **International Society for the Study of Xenobiotics (ISSX)**, Charter Member

- **American Association for the Advancement of Science (AAAS), rejoined 1990**
- **Council for Agricultural Science and Technology (CAST), Task Force Member**
- **New York Academy of Sciences, rejoined 1991**
- **Research Science Society of America (RESA)**  
Charter Member and Secretary of Midland Chapter, 1957-1959
- **Sigma XI, elected as full member at Purdue University in 1955**  
Michigan Science Talent Search, Evaluation Panel for 1991 Awards