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INTERIM CHEMICAL REVIEW COMMITTEE

Fourth session

Rome, 3 – 7 March 2003

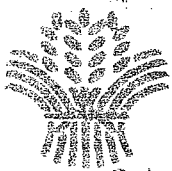
Item 2b of the provisional agenda*

NEW EXPERTS ON THE INTERIM CHEMICAL REVIEW COMMITTEE

Note by the secretariat

1. The Intergovernmental Negotiating Committee, at its ninth session in Boon, confirmed the nomination of the 29 experts to serve on the Interim Chemical Review Committee (see UNEP/FAO/PIC/ICRC.4/INF.1).
2. In a letter of 14 November 2002, Mr. Bob Ward informed the Secretariat that he was no longer able to serve as a member of the Interim Chemical Review Committee. In the same letter, the Secretariat was informed that, following consultation among the States of the North America region, Mr. Lars Juergensen was proposed as the new expert. Mr. Lars Juergensen will serve on the Committee, pending formal confirmation by the Intergovernmental Negotiating Committee, at its tenth session.
3. In a fax message received on 31 January 2003, Mr. Dario C. Sabularse has been designated by the Government of the Philippines as the new expert for the Interim Chemical Review Committee. Mr. Dario C. Sabularse will serve on the Committee, pending formal confirmation by the Intergovernmental Negotiating Committee, at its tenth session.
4. The letters mentioned above and relevant qualifications of the new experts are annexed to this note.

UNEP/FAO/PIC/ICRC.4/1



Republic of the Philippines
DEPARTMENT OF AGRICULTURE
Office of the Secretary
Elliptical Road, Diliman, Quezon City 1100 Philippines

2 January 2003

Dr. N.A. Van der Graaf
Executive Secretary
Interim Secretariat for the Rotterdam Convention
On the Prior Informed Consent Procedure for
Certain Chemicals and Pesticides in International Trade
Plant Production and Protection Division
Food and Agriculture Organization
Viale delle Terme di Caracalla
Rome, Italy

PL-36/10

Dear Dr. Van der Graaf:

Greetings from the Philippines!

This refers to the nomination of a Philippine representative in the Interim Chemical Review Committee (ICRC). We recognize the need for the FPA to be actively involved in the PIC/INC but regrettably we have not participated in the meetings because of our limited budget. We have signified to participate in the ninth Session of the INC held in Bonn, Germany last September 30 to 4 October 2002 but FPA representation was not considered for funding by the UNEP/FAO. Hence, it was quite a surprise for the FPA to be recommended by the ITDI/DOST to be a member of the ICRC.

Our Agricultural Attaches have been following up the nomination of the Philippine Representative from the Fertilizer and Pesticide Authority since we also do not want to lose our position by default.

In this regard, we are nominating **DR. DARIO C. SABULARSE**, Deputy Executive Director for Pesticides of the FPA. Dr. Sabularse is an acknowledged chemist/biochemist. We are confident that his involvement will be very advantageous for the Philippine Government and the ICRC.

Attached are the "conflict of interest" and the Curriculum Vitae of Dr. Sabularse.

Thank you and as we look forward to more collaboration.

Regards.

Very truly yours,

[Signature]
LUIS P. LORENZO, JR.
Secretary of Agriculture, and
Chairman, FPA Board

PLANT PROTECTION	
RD JAN 31 2003	
RECEIVED	MAILS
Mr. VAN DER GRAAFF	

GININTUANG MASAGANANG ANI
Go Modern Agriculture

CURRICULUM VITAE

Name : **DARIO C. SABULARSE** Nickname : Dars
 Birthdate : July 1, 1943 Nationality : Filipino
 Residence : Bughaw St., Collegeville, UPLB, Tel. No. : (063) (49) 536-27-90
 College, Laguna Cell No. : (0919) 628-53-83
 Office : **Fertilizer and Pesticide Authority**, Office Phone No.: (063) (2) 922-33-64
 4th Floor, Bldg. B, NIA Complex, 926-58-77
 EDSA, Quezon City Telefax: (063) (2) 922-33-64

<u>Schools Attended</u>	<u>Year Graduated</u>	<u>Degree</u>
Michigan State Univ., U.S.A.	1982	Ph. D. Biochemistry
Univ. of Trondheim, Norway	1976	Diploma - Electron Microscopy Techniques
Univ. of the Philippines at Los Baños, Laguna, Philippines	1970	M. S. Ag. Chemistry
Univ. of the Philippines at Los Baños, Laguna, Philippines	1967	B. S. Ag. Chemistry
Civil Service Qualification		Registered Chemist, License No. 3630 May 1971, 10th Place Chemistry Professional Board Examination
Career Executive Service Eligibility		Career Executive Service Officer (CESO) IV September 2, 1998

EXPERIENCE

<u>Name/Address of Employers</u>	<u>Position</u>	<u>Year</u>
Fertilizer and Pesticide Authority, Quezon City (FPA)	Deputy Executive Director III for Pesticides	Jan. 1999 to present
FPA	Deputy Executive Director III for Technical Services	Aug. 1, 1995 to Dec. 1998
FPA	FPA's Alternate Project Manager on Pesticide Monitoring System Development Project (PMDP)	Mar. 1997 to Mar. 2002

<u>Name/Address of Employers</u>	<u>Position</u>	<u>Year</u>
College of Arts and Sciences (CAS), UPLB, Laguna	Associate Professor V	Jan. 1997 to July 31, 2000
UPLB, Laguna	Associate Professor III	Jan. 1995 to Dec. 1996
UPLB	Associate Professor II	July 1, 1991 to Jan. 1995
UPLB	ESEP Coordinator	July 1992 to July 1995
FPA	Partial Detail as Registration Consultant for Pesticide	July 1994 to July 1995
Office of the Dean, CAS, UPLB	Assistant to the Dean for Planning and Development	July 1992 to Nov. 1994
Institute of Chemistry	Assistant Professor * Handles undergraduate and graduate biochemistry courses	Dec. 29, 1982 to July 1991
Institute of Chemistry	Officer-in-Charge	Sept. 19-27, 1983 Jan. 19-21, 1984 April 4-10, '84 May 27-June 1, '86 April 22-23, '87 Oct. 19-23, '87 May 9-11, '88 May 23-31, '88 Aug. 9-13, '88 Sept. 27-28, '88 April 22-May 3, '89 May 7-10, '89 Oct. 12-24, '89 March 27-May 20, '91
	Division Head, Biochemistry and Ag. Chemistry Division	Dec. 1986 to Dec. 1990

<u>Name/Address of Employers</u>	<u>Position</u>	<u>Year</u>
College of Medicine, UP, Manila	Professorial Lecturer I - Lectured graduate biochemistry course	Nov. 1988 to Oct. 1990
Michigan State University, USA	Teaching Assistant and Graduate Assistant - Lectured an undergraduate general biochemistry course and conducted research on the enzyme inorganic pyrophosphatase: D-fructose-6-phosphate 1-phospho-transferase.	Sept. 1981 to Dec. 1982
CAS, UPLB, College, Laguna, Philippines	Instructor - Handled undergraduate courses in general biochemistry, physical chemistry, general chemistry and chemical literature. - Developed instructional materials for training of high school chemistry teachers.	June 1972 to Dec. 1982
Proctor and Gamble, Philippines	Brand Manager, Product Development Department - Conducted and directed product development on synthetic detergents	Dec. 1971 to June 1972
Philippine Women's University (PWU), Manila	Part-time Chemistry Instructor - Handled undergraduate lecture and laboratory courses in organic and organic with biochemistry	1971 to 1972
Agricultural Research Center (ARC), National Institute of Science and Technology (NIST), Manila, Philippines	Scientist III - Engaged in the development and improvement of research facilities of the ARC and conducted research on coconut cadang-cadang.	Nov. 1970 to Dec. 1971
College of Forestry, UPLB, College, Laguna, Philippines	Chemistry Instructor - Handled general chemistry courses.	June to Oct. 1970

<u>Name/Address of Employers</u>	<u>Position</u>	<u>Year</u>
College of Agriculture, UPLB, College, Laguna, Philippines	Laboratory instructor Graduate Fellow, UPLB-Cornell Program - Conducted research on the application and modification of certain histochemical techniques to study the coconut endosperm. - Handled undergraduate laboratory courses in general chemistry.	1967 to 1969

RESEARCHES UNDERTAKEN

Unpublished

Lysine Content of Mungo at Different Stages of Sprouting (B.S. Thesis, 1967, UP College of Agriculture).

Histochemical Studies of Coconut Endosperm (M.S. Thesis, 1970, UP College of Agriculture).

Protein Bodies of the Mature Endosperm of Cocos nucifera L. Research conducted at the University of Trondheim, Norway, 1976.

Inorganic Pyrophosphate: D-Fructose-6-Phosphate 1-Phosphotransferase in Plants and its Regulation by a Naturally Occurring Activator, D-Fructose 2, 6-Biphosphate (Ph D thesis, 1982, Michigan State University).

Nata de Coco as Solid Support for Dye-Ligand Affinity Chromatography, UPLB-IC Funded Research.

M. S. THESIS ADVISEES

Loreto, M.T.P 1990. Sucrose Phosphate Synthase in Two Sweet Potato Cultivars. M.S. Agricultural Chemistry Thesis.

Parayno, N.A. 1992. Preparation of immobilized invertase on a diazonium salt of p-aminobenzoyl-nata. M.S. Agricultural Chemistry Thesis.

Borja, AM.J. 1992. Beaded Cellulose Gel from Nata de Coco as Matrix for Dye-ligand Chromatography. M.S. Biochemistry Thesis.

B. S. THESIS ADVISEES

Mallari, A.C. 1986. Water Hyacinth as a Potential Source of Nutrients for Liquid Fertilizer Formulation. B.S. Chem. Undergraduate Thesis.

Borja, A.M.S. 1987. Potential Steps in the Extraction and Purification of NADH from Baker's Yeast. B.S. Chem. Undergraduate Thesis.

Buatis, M.L.P. 1987. Isolation and Purification of ADP and ATP from Baker's Yeast. B.S. Chem Undergraduate Thesis.

See, F.S. 1987. Studies on the Acid-Base Indicator Properties of the Pigments from Pili (Canarium ovatum) Exocarp. B.S.

Heradura, P.S. 1988. The tocopherol content of fresh coconut oil from mature germinating coconut. Undergraduate Thesis, with Castillo, E.M. as co-adviser.

Cadid, R.B. 1989. Isolation and Characterization of polysaccharides in coconut "sapal." Undergraduate Thesis, with Castillo, E.M. as co-adviser.

Young, J.J. 1989. Determination and identification of acid sugars in the cell wall material isolated from coconut endosperm (Cocos nucifera L. var. Orange Dwarf) at three stages of maturity. Undergraduate Thesis with Castillo, E.M. as co-adviser.

Macatangay, R.G. 1991. Purification of malate dehydrogenase from beef heart using dye-ligand chromatography. B.S. Chem. Undergraduate Thesis.

Vinuya, J.V. 1991. Purification and partial characterization of adenylate kinase from germinating mung beans (Vigna radiata) B.S. Chem. Undergraduate Thesis.

Bebing, N.N. 1984. Optimization of Conditions for NaOH Extraction in Saccharomyces cerevisiae. B.S. Chem. Undergraduate Thesis.

PUBLICATIONS

Carpita, N., Sabularse, D., Motezinos, D., and Deimer, D.P. 1979. Determination of the pore size of cell walls of living plant cells. Science 205, 1144-1147.

Sabularse, D.C., and Anderson, R.L. 1981. Inorganic pyrophosphate: D-fructose-6-phosphate-1-phosphotransferase in mung beans and its activation by D-fructose, 1,6-bisphosphate and D-glucose, 1,6-bisphosphate. Biochemistry Biophys. Res. Commun., 100, 1423-1429.

- Sabularse, D.C., and Anderson, R.L., 1981. D-fructose 2,6-bisphosphate: A naturally occurring activator for inorganic pyrophosphate: D-fructose-6-phosphate 1-phosphotransferase in plant. Biochem. Biophys. Res. Commun., 103, 848-855.
- Anderson, R.L., and Sabularse, D.C. 1982. Inorganic pyrophosphate: D-fructose-6-phosphate 1-phosphotransferase from among bean. Methods in Enzymology. Carbohydrate Metabolism part E 90. 91-97.
- Sabularse, D.C. and Parayno, N.A. 1992. Immobilization of invertase on diazonium salt of p-aminobenzoyl-nata. Microbial Utilization of Renewable Resources 8: 77-104.
- Lambio, A.L., Sevilla, C.C., Capitan, S.S., Kharef, M., and Sabularse, D.C. 1992. Genetic Polymorphism on Serum Proteins and Isoenzyme in Philippine Native Goats. Phil. J. Vet. Anim. Sciences 18 (3): 223-228.
- Sabularse, D.C., and Kinoshita S. 1993. Immobilization of Invertase by Coupling to diazonium salt of p-aminobenzoyl-nata. Annual Reports of International Center of BIOTECH. Vol. 15.
- Kang, E.T., Sabularse, D.C., and Kinoshita S. 1993. Immobilization of yeast invertase in alginate gel and on DEAE-sepharose A50. Annual Reports of International Center of Biotech. Vol. 15.

PAPERS PRESENTED IN CONFERENCES, ETC.

1. Inorganic pyrophosphate: D-fructose-6-phosphate 1-phosphotransferase in plants and its regulation by a naturally occurring activator D-fructose 2,6-bisphosphate. Phil. Biochemical Society Convention 1983. University of the Philippines, Diliman, Q.C.
2. Recent Trends in the Regulation of Phosphofructokinase and Fructose 1,6-Bisphosphate. Phil. Biochemical Society Convention 1985, University of Sto. Tomas, Manila.
3. Regulation of Carbohydrate Metabolism in Plants Symposium: Updates on Biochemical Regulation Phil. Biochemical Society, July 1988, University of Sto. Tomas, Manila.
4. Metabolism of Amino Acids. Phil. Biochemical Society Convention and Workshop, May 1989, University of Sto. Tomas, Manila.
5. Dye Ligand Chromatography for Separation and Purification of Enzymes, Diamond Jubilee Professorial Chair Lecture, December 19, 1990. Institute of Chemistry, UPLB.

RESEARCHES

Preparation and Characterization of Carboxymethyl-nata for use as food additive and chromatography matrix in protein purification. (DOST-Funded P201,000.00).

Production of Some Important Biomolecules - IC-UPLB Funded. - Study Leader.

Production of Micronutrient Concentrate for liquid fertilizer formulation.

Product Formulation

Greenex All-Purpose Liquid Fertilizer - Approved 1985, by Fertilizer and Pesticide Authority, Given the FPA Control No. 01-253.

PARTICIPATION IN TRAINING / STUDY VISIT / CONFERENCE

Electron Microscopy Techniques, Norwegian Agency for International Development, Norges Tekniske Hogskole, Trondheim, Norway. August 1975 to July 1976.

Study visit to University of La Trobe, Melbourne, Australia. September to October 1991.

Attendance to Biotechnology Conference, Bangkok, Thailand. October 29 to November 2, 1992.

Study visit to Hokkaido University, Japan. March 27 to June 29, 1993.

Attendance to the 10th Session of the Codex Coordinating Committee for Asia, Tokyo, Japan. March 5 to 8, 1996.

Attendance to International Seminar on Recent Development of Mosquito Coils: Efficacy, Toxicology, Environmental Impact and Legislation, Universiti Sains Malaysia, Penang, Malaysia. 5 to 7 December 1996.

Attendance to First International Conference of the Asian Society of Toxicology, Yokohama, Japan. 29 June to 2 July 1997.

Attendance to The Project Planning and Management Seminar for Project Managers, Japan International Cooperation Agency, Tokyo, Japan. 31 March to 9 April 1998.

Attendance to Regional Network on Safe Pesticides Production and Information for Asia and the Pacific, Kathmandu, Nepal. 16-17 February 1999.

Attendance to the 4th Session of the Intergovernmental Negotiating Committee for an International Action on Certain Persistent Organic Pollutants (INC4-POPs), Bonn, Germany. 20-25 March 2000.

Attendance to the 6th Training Workshop on Use of Nuclear Techniques in Studies of Agriculture, Beijing, China. 18-28 October 2000.

Attendance to JICA Technical Exchange Program, Vietnam. 21-25 May 2001.

Attendance to FAO Regional Workshop on Obsolete, Banned Pesticide Stocks and Persistent Organic Pollutants, Bangkok, Thailand. 4-8 June 2001.

Attendance to COCHRAN Workshop on Biotechnology, U.S.A., 8-24 September 2001.

Attendance to the JICA Training Course on Establishment of Pesticide MRL, Japan, 18 November to 4 December 2001.

Attendance to the Pesticide Regulatory Harmonization Workshop, Bangkok, Thailand 28-30 January 2002.

Attendance to the 3rd Int'l Conference on Biopesticides, Kuala Lumpur, Malaysia, 21 to 29 April 2002.

Attendance to the International Workshop on Methyl Bromide Alternatives, Pattaya, Thailand, 25 to 25 September 2002.

Attendance to

- International Agrochemical Residues Workshop, 28-29 October 2002, Hanoi, Vietnam.
- 7th Meeting of the Expert Working Group on Harmonization of MRLs of Pesticides Among ASEAN Countries, 30 October to 1 November 2002, Hanoi, Vietnam.

SCHOLARSHIP, HONORS AND AWARDS

Class Valedictorian, 1962 - Student Leader, Orator, and Future Farmer of the Year - High School, Camarines Sur National Agricultural School.

Entrance Scholar, 1962 - College of Agriculture, University of the Philippines (UPCA).

College Scholar - 3 semesters, UPCA

Honor Roll - 6 semesters, UPCA

Philippine Banking Corporation Scholar, 1962-1963, UPCA

Undergraduate Fellow, 1963-1965, UPCA

L.L. Vincent Memorial Fund Scholar, 1965-1966, UPCA

U. P. Cornell Graduate Research Fellow, 1967-1969, UPCA

Honor Cadet, UPCA ROTC, 1964.

Most Outstanding Senior Student in Leadership, 1966, UPCA.

Best Parliamentarian, 1966 and 1967, National Convention Agricultural College Student Association of the Philippines.

Top Ten - Chemistry Professional Board Examination - taken May 1971.

Norwegian Agency for International Development (NORAD) Fellowship, August 1975 to July 1976, University of Trondheim, Norway.

PCARRD-U.S. AID Fellowship, January 1978 to December 1980, Michigan State University, East Lansing, Michigan.

Achievement Award - UPLB Chemical Society, 25th Anniversary. October 7, 1989.

Outstanding Alumnus in Extension Awardee for the Year 2000, UPLB.

MEMBERSHIP IN HONOR AND SCIENTIFIC SOCIETIES

Phi Kappa Phi, International Honor Society, 1967 to date

Gamma Sigma Delta, the Honor Society of Agriculture (UP Chapter), 1967 to date (Life Member)

Society for the Advancement of Research, 1967 to date

Chemical Society of the Philippines, 1971 to date (Life Member)

Philippine Biochemical Society, 1976 to date (Life Member)

National Research Council of the Philippines, 1983 to date (Regular Member)

Philippine Association for the Advancement of Science, 1984 to date.

LEADERSHIP IN ORGANIZATIONS

Vice President, Sophomore Class, 1963-1964, UPCA

President, Junior Class, 1964-1965, UPCA

Vice President, Student Body Organization, 1965-1966, UPCA

President, Student Body Organization, 1966-1967, UPCA

President, Agricultural College Student Association of the Philippines, 1966-1967, National

President, Kapisanan ng Mga Kimiko sa Pilipinas, Los Baños Chapter, 1983-1984

Adviser, UP Beta Sigma, Los Baños, Laguna, 1986-1988

Auditor, Kapisanan ng Mga Kimiko sa Pilipinas, Laguna 1988-1989.

Board Member, Kapisanan ng Mga Kimiko sa Pilipinas, National, 1989-1990.

Board Member, Kapisanan ng Mga Kimiko sa Pilipinas, Los Baños Chapter, 1988 to 1990.

Adviser, UPLB Chemical Society, 1992 to 1995.

OTHER DUTIES IN THE UNIVERSITY

<i>Position</i>	<i>Committee</i>	<i>Level</i>	<i>Inclusive Date</i>
Chairman	Graduate Instruction	Department	1983-1988
Chairman	Sports	Department	1984-1986
Chairman	Sports	College	1986-1987
Member	Academic Personnel	Department	1984-1986
Member	Academic Personnel	Department	1988-1990
Member	Curriculum	Department	1985-1995
Representative at Large	UPLB Admission	University	1984-1986
Member	Loyalty Day Sports	University	1986, 1987, 1988
Member	Biomedical Science Program Review	University	1987 (July to Oct)
CAS Rep. at Large	UREC Executive	University	1989
Member	IMSP Director Search	University	1989
Member	Maini Case Investigating	Chairman	1986
Chairman	FQR Case Investigating	Department	1989
Member	Gamma Sigma Delta Best Thesis Award	University	1990
Member	Scholarship and Award	University	1988 to 1990
Chairman	KKP Annual Award	Los Baños	1985-1986
Chairman	PNSS Chemistry Division Award	National	1987
Member	- do -	National	1988, 1989
Member	Graduate School Physical Sciences	University	1990 to Nov. 1994
Chairman	- do -	University	1994-1995
Member	UPLB CBA	University	1991 to 1995
Member	UPLB Foundation CBA	University	1992 to Feb. 1994
Member	UPLB Nata de Coco Task Force	University	1993 to 1995


DARIO C. SABULARSE, Ph. D.

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DCS' CV ~ 10 of 10

ANNEX

NOMINATIONS AND QUALIFICATIONS

<u>North America</u>	-	Canada	Mr. Lars Juergensen
<u>Asia</u>		Philippines	Mr. Dario C. Sabularse

As received by the Secretariat



Health
Canada

Santé
Canada

Pest
Management
Regulatory
Agency

Agence de
réglementation
de la lutte
antiparasitaire

Alternative Strategies & Regulatory Affairs /
Nouvelles stratégies et affaires réglementaires
2720 promenade Riverside Drive
Ottawa ON K1A 0K9

Tel : (613) 736-3753
Fax: (613) 736-3659

November 14, 2002

N. Van der Graff, Executive Secretary
Interim Secretariat for the Rotterdam
Convention on the Prior Informed Consent
Procedure for Certain Hazardous Chemicals
and Pesticides in International Trade
Plant Protection Service
Plant Production and Protection Division
Food and Agriculture Org. of the United Nations
Viale della Terme di Caracalla
00100 Rome, Italy

James B. Willis, Executive Secretary
Interim Secretariat for the Rotterdam
Convention on the Prior Informed Consent
Procedure for Certain Hazardous Chemicals
and Pesticides in International Trade
Chemicals
United Nations Environment Programme
11-13, Chemin des Anémones
CH-1219 Châtelaine
Geneva, Switzerland

Dear Mr. Van der Graff and Willis:

Please accept this letter as my resignation as a member of the Interim Chemical Review Committee.

In consultation with the other member of the North American Region, we propose the nomination of Lars Juergensen (Curriculum vitae attached) on an interim basis, pending formal confirmation of his nomination by the Intergovernmental Negotiating Committee.

May I thank you, once again, for the opportunity to serve the Interim Chemical review Committee.

Sincerely,

Rob Ward

c.c.: K Barnes United States EPA
B. Made Environment Canada

Canada

CONTACT INFORMATION

Lars Juergensen
Pest Management Regulatory Agency
Health Canada AL 6607 D
2720 Riverside Drive
Ottawa, Ontario
Canada K1A 0K9

T : 613-736-3697

F : 613-736-3699

E : Lars_Juergensen@hc-sc.gc.ca

PROFESSIONAL EXPERIENCE

November 2002 - present Project Manager

Pest Management Regulatory Agency,
Alternative Strategies and Regulatory Affairs Division

- Represent the Agency on interdepartmental initiatives
- Provide expert advice and guidance to senior management
- Develop regulatory policy and procedures
- Analyse impact of international conventions and policies
- Support Canadian positions at international fora

October 1999 - November 2002 Project Officer

Pest Management Regulatory Agency,
Alternative Strategies and Regulatory Affairs Division

- Represented the Agency on interdepartmental initiatives
- Provided expert advice and guidance to senior management
- Developed regulatory policy and procedures
- Analysed impact of regulations and policies of other government departments

May 1998 - October 1999 Environmental Quality Guidelines Officer

Environment Canada,
Environmental Quality Branch

- Derived National Environmental Quality Guidelines
- Represented the Branch on interdepartmental initiatives
- Managed in-house and external contractors
- Presented scientific data and policy initiatives at national and international fora
- Provided expert advice and guidance to senior management

May 1997 - May 1998 Environmental Consultant

Contracted by Environment Canada,
Environmental Quality Branch

- Derived National Environmental Quality Guidelines
- Presented scientific data at national and international fora

EDUCATION

1996 Master of Science (Biology)

University of Ottawa, Ottawa, Ontario

- M.Sc. Thesis: "Tissue enzyme changes in air-exposed American eels"

1994 Honours Bachelor of Science (Biology, Honours - Co-op)

University of Waterloo, Waterloo, Ontario

- animal physiology, toxicology and biochemistry