3/12/2012

Michael C. Newman

Current Title: Professor A. Marshall Acuff, Jr. Professor of Marine Science

PERSONAL INFORMATION

WORK

Virginia Institute of Marine Science School of Marine Science The College of William and Mary Gloucester Point, VA 23062-1346 Telephone: (804) 684-7725 HOME

121 York Point Drive Seaford, VA 23696

EDUCATION

- 1980/81 M.S., Ph.D. Rutgers University, Environmental Sciences
- 1978 M.S. University of Connecticut, Zoology

1974 B.A. University of Connecticut, Biology

ACADEMIC POSITIONS

- 2011-14 VISITING PROFESSOR. College of Life Science, Huazhong Normal University (华中师范大学).
- 1998-12 **PROFESSOR OF MARINE SCIENCE.** The College of William and Mary, Virginia Institute of Marine Science/School of Marine Sciences.
- 1998-10 **SPECIAL GOVERNMENT EMPLOYEE**. Special employee serving on SAB and other EPA committees, and a National Academy of Science committee.
- 1999-02 **DEAN OF GRADUATE STUDIES**. The College of William and Mary, School of Marine Science (SMS). As the Dean of Graduate Studies, directed the SMS Graduate Studies Program. Acting Dean of School of Marine Science during Dean's absence; Acting Director of Virginia Institute of Marine Science (VIMS) during the absences of VIMS Director and Director of Research and Advisory Service.
- 1996-97 **SENIOR RESEARCH ECOLOGIST**. University of Georgia, Savannah River Ecology Laboratory (SREL).
- 1996-97 **HEAD**. Ecological Toxicology, Remediation, and Risk Assessment (ETRRA) Group composed of eight faculty members and thirty technical staff. University of Georgia, SREL.

1990-96 **RESEARCH ASSOCIATE ECOLOGIST**. University of Georgia, SREL.

- 1983-90 **RESEARCH ASSISTANT ECOLOGIST**. University of Georgia, SREL.
- 1983 **POSTDOCTORAL FELLOW**. University of California--San Diego.
- 1982 **POSTDOCTORAL RESEARCH ASSOCIATE**. University of Georgia, SREL
- 1980-81 **GRADUATE RESEARCH ASSISTANT**. Rutgers University, Institute of Coastal and Environmental Studies.
- 1977 SENIOR RESEARCH TECHNICIAN III. University of Delaware, College of

Marine Studies.

1975-76 SPECIAL RESEARCH TECHNICIAN, GRADUATE RESEARCH ASSISTANT. University of Connecticut, Marine Research Laboratory.

ADJUNCT FACULTY STATUS

- 2011-14 College of Life Science, (Central China) Huazhong Normal University (华中师范大学); Visiting Professor.
- 1995-02 University of Georgia; Taught graduate course through Institute of Ecology (Interdisciplinary Toxicology Program) every other year.
- 1995-98 Clemson University, Department of Environmental Toxicology, Associate Professor.

RECENT SIGNIFICANT AWARDS OR RECOGNITION

2011-14	Visiting Lecturer/Scholar. Huazhong Normal University (华中师范大学),
	Wuhan, P.R. China. Chinese government funding awarded for two
	teaching visits annually.
2011	Erudite Scholar. Scholar in Residence Programme – The Erudite of
	Higher Education Council, Government of Kerala. Cochin University of
	Science and Technology, Cochin University, Kerala, India
2009	Fulbright Senior Scholar. University of Koblenz-Landau, Germany.
2008-12	Named Professor. A. Marshall Acuff, Jr. Professor of Marine Science.
	This named professorship is based on "achievements in scholarship,
	teaching, service and governance at VIMS/The College of William and
	Mary, and for the highest level of eminence outside the university." This
	named professorship is renewable at five year intervals.
2007-2008	Committee Member. EPA Clean Air Scientific Advisory Committee for
	Lead. This committee successfully recommended an order of magnitude
	decrease in primary and secondary standards.
2006	Recognition of Valued Service to EPA (SAB service from 2001 to 2006)
2006-2007	Certificate of Recognition for Outstanding Service. National Academy
	of Science, Review of OMB Risk Assessment Bulletin.
	Committee Member. NAS NRC Scientific Review Panel which
	successfully recommended rejection of a proposed OMB risk assessment
	policy initiative that would have fundamentally changed the manner in
	which the federal government conducted risk assessments. The
	committee's recommendation was praised in the Wall Street Journal
	(January 11, 2007), Washington Post (January 12, 2007), and New York
0005	Times (January 12, 2007).
2005	Fulbright Senior Specialist Program. Awarded placement on roster for
	assignment to universities requesting engagement in teaching, research,
0004	or curriculum development, 5 year placement (2006-2010).
2004	Recipient , SETAC Founder's Award. According to the SETAC Award's
	Committee SOPs, "This award is the highest SETAC Award, given to a
	person with an outstanding career who has made a clearly identifiable

contribution in the environmental sciences that is consistent with the goals of SETAC."

2002 **Special Recognition** by VIMS Advisory Council for exceptional service as Dean of Graduate Studies. The Advisory Council is composed of regional leaders who provide guidance to VIMS relative to strategic planning, fund raising, education, and regional service.

CONTRIBUTIONS TO EDUCATION

COURSES TAUGHT

(Student evaluation statistics provided for all cases in which they were available.)

- 2011-12 **Fundamentals of Ecotoxicology**. Huazhong Normal University. Wuhan, P.R. China. Co-instructor. (Graduate Course: 29 graduate students in May, 2 graduate students in November, and 24 in May 2012).
- 2011-12 **Fundamentals of Ecotoxicology**. Huazhong Normal University. Wuhan, P.R. China. Co-instructor. (Undergraduate Course: 16 graduate students in June, 60 in November, and 25 in May 2012).
- How to Write a Scientific Paper in English. Huazhong Normal University.
 Wuhan, P.R. China. Taught twice in May and November (5 hour short course, 32 graduate students; 52 undergraduate students in May; and another 60 undergraduate students in November).
- 2011-12 **Practical Environmental Statistics**. Huazhong Normal University. Wuhan, P.R. China. (Month short course, 23 contact hours)(23 graduate students in November and 27 in May).
- 2011 **Practical Environmental Sampling, Measurement, and Inferential Statistics**. MSCI642. (3 credits)(Fall Semester).
- 2011 **Quantitative Ecological Toxicology**. EHSC8630. University of Georgia. Athens, GA. (12 graduate students, one attended via distance learning.) Overall Course/Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.8.
- Practical Environmental Sampling, Measurement, and Inferential Statistics. MSCI642. (3 credits)(Fall Semester).). Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.8.
 Ecological Risk Assessment Workshop. SETAC Asia/Pacific Meetings, Ho Chi Minh City, Vietnam. Ho Chi Minh City University of Technology. (140 students).

Fundamentals of Ecotoxicology. MSCI560 graduate course. (3 credits)(Spring Semester) Two students.

Practical Environmental Sampling, Measurement, and Inferential Statistics. MSCI642. (3 credits)(Fall Semester). Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.9.
 Eutrophication and Environmental Risk Assessment. Summer course taught at Xiamen University, Xiamen, China. Team taught course with 74 graduate students who successfully competed for openings in this course.

Quantitative Ecological Toxicology. Summer course taught to College of

William & Mary graduate students (4 students).

Quantitative Ecological Toxicology. EHSC8630. Summer course taught by distance teaching to University of Georgia graduate students (6 students). Practical Concepts and Tools for Discerning Cause and Risk in the Presence of High Uncertainty. Short course at the University of Koblenz-Landau. Total of 30 students.

Quantitative Ecological Toxicology. Short course taught at the University of Koblenz-Landau (German) (18 students), Sole Instructor, Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.7.

Writing an Excellent Publication and Giving and Excellent Talk. Workshop taught at the University of Koblenz-Landau (German) (70 students), Sole Instructor. Evaluation by Students ("[The workshop] was interesting", 1=totally agree, 6=totally disagree): 1.46.

2008 **Ecological Risk Assessment: Theory and Practice**. Duke Environmental Leadership Program. Duke University. (ENV 442, 1 credit). Total of twenty-six students.). Instructor Evaluation by Students (Based on 1 = unsatisfactory to 5 = excellent): 4.6.

Practical Concepts and Tools for Discerning Cause and Risk in the Presence of High Uncertainty. Short course at the SETAC International Conference in Sydney, Australia. Total of twenty-four students. Fundamentals of Ecotoxicology. ENSP440, MSCI560 and BIO440/504 cross listed undergraduate and graduate course. (3 credits)(Spring Semester) Total of fourteen students.

Independent Research. ENSP 490. Discussion and exchange course with counterpart in Wuhan, China. Three students. (1 credit)(Spring Semester) Practical Environmental Sampling, Measurement, and Inferential Statistics. MSCI642. (3 credits)(Spring Semester). Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.8.

Quantitative Ecological Toxicology. EHSC8630 (4 credits). University of Georgia Interdisciplinary Toxicology Program. Fourteen graduate students. Visiting Lecturer/Adjunct Faculty, May Session, Sole Instructor, Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.61.
 Quantifying Lethal and Sublethal Effects: Theory and Practice. Short course. University of Hong Kong, Swire Institute of Marine Science and Department of Ecology and Biodiversity.
 Practical Environmental Sampling, Measurement, and Inferential Statistics. MSCI642. (3 credits)(Spring Semester). Instructor Evaluation by

Students (Based on 1 = poor to 5 = excellent): 4.91.

- **Fundamentals of Ecotoxicology**. ENST440 and BIO440/504 cross listed undergraduate and graduate course (3 credits)(Spring Semester). Thirteen students. Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.80. College of William and Mary, Williamsburg campus.
- 2005 **Fundamentals of Ecotoxicology**. MS560 (3 credits)(Spring Semester). Seven graduate students. Sole Instructor. Instructor Evaluation by Students

(Based on 1 = poor to 5 = excellent): 4.80.

Quantitative Ecological Toxicology. EHSC863 (4 credits). University of Georgia Interdisciplinary Toxicology Program. Eleven graduate students. Visiting Lecturer/Adjunct Faculty, May Session, Sole Instructor, Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.70.

Statistical Analysis of Toxicity Data. Three day short course, at the request of Bayer Agrochemicals. Taught at Stillwell, Kansas facility with distance learning attendance for Raleigh, NC facility employees. Sixteen students.

2004 **Environmental Risk Assessment.** MS641 (3 credits). (Spring Semester). College of William and Mary's Virginia Institute of Marine Science. Two graduate students. Sole Instructor.

Quantitative Ecological Toxicology. MS640 (4 credits). One graduate student. Sole Instructor.

Quantitative Ecological Toxicology. Short course organized at the College of William and Mary (7 students). Sole Instructor.

Quantitative Ecological Toxicology. Short course taught at Jagiellonian University (Krakow, Poland). This university is the second oldest in Central Europe and is currently a European Community Centre of Excellence IBAES. (21 students) Sole Instructor. Rated by students as above average to excellent.

Taking the Pulse of Our Changing Planet. NSF-funded course for middle school teachers. (18 teachers). Member of team of Mid-Atlantic Educators funded to conduct this course. Qualitative student assessment of my assigned day of five day course: Interest – "Very", Relevance – "Very", Pace – "Just Right", New Learning – "Just Right"

2003 **Quantitative Ecological Toxicology**. Short course taught at the University of Joensuu (Finland) (12 students), Sole Instructor. Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.73

Quantitative Ecological Toxicology. MS 640 (4 credits). Summer session College of William and Mary's Virginia Institute of Marine Science. One student. Sole Instructor.

Quantitative Ecological Toxicology. Short course organized at the College of William and Mary (4 students), Sole Instructor. Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.75

Quantitative Ecological Toxicology. ECOL863-863L (4 credits). University of Georgia Interdisciplinary Toxicology Program. Twenty-four graduate students. Visiting Lecturer/Adjunct Faculty, May Session, Sole Instructor. Instructor Evaluation by Students (Based on 1 = poor to 5 = excellent): 4.45 Environmental Risk Assessment. MS 641 (3 credits). (Spring Semester). College of William and Mary's Virginia Institute of Marine Science. Two graduate students. Sole Instructor.

2002 **Quantitative Ecological Toxicology**. MS 640 (4 credits). First School of Marine Sciences course to be offered with distance learning technologies. College of William and Mary's Virginia Institute of Marine Science. Four

students. Sole Instructor.

Quantitative Ecological Toxicology. Short course organized by the Australian Society of Ecotoxicology, University of Technology - Sydney (30 students), Sole Instructor. (No evaluations available)

Quantitative Ecological Toxicology. MS 640 (4 credits). (Summer Session). College of William and Mary's Virginia Institute of Marine Science. Six graduate students. Sole Instructor.

- Quantitative Ecological Toxicology. University of Antwerp, Belgium. Twenty-seven graduate students. Visiting Lecturer, Sole Instructor.
 Quantitative Ecological Toxicology. ECOL863-863L (4 credits). University of Georgia Interdisciplinary Toxicology Program. Twenty graduate students. Visiting Lecturer/Adjunct Faculty, May Session, Sole Instructor. Course Instructor Evaluation by Students (Based on 1 = excellent to 5 = poor): 1.1.
 Quantitative Ecological Toxicology. MS 640 (4 credits). (Spring Semester). College of William and Mary's Virginia Institute of Marine Science. Four graduate students. Sole Instructor.
- 2000 **Environmental Risk Assessment**. MS 641 (3 credits). (Fall Semester). College of William and Mary's Virginia Institute of Marine Science. Seven graduate students. Sole Instructor.

Practical Statistics for Environmental Measurement. Two day short course. College of William and Mary=s Virginia Institute of Marine Science. Co-instructor with D.Ownby as primary instructor. Ten students. Course Instructor Evaluation of Newman (Based from 1 (not effective) to 10 (extremely effective)): 9.2.

Practical Statistics for Environmental Measurement. One day short course. Department of Environmental Protection, Richmond, Virginia. Taught twice to a total of 35 State of Virginia professionals.

1999 **Environmental Risk Assessment**. MS 641 (3 credits). (Fall Semester). College of William and Mary's Virginia Institute of Marine Science. Three graduate students. Sole Instructor.

Practical Statistics for Environmental Measurement (Summer). Two day short course. College of William and Mary=s Virginia Institute of Marine Science. Co-instructor with D. Ownby as primary instructor. Fourteen students. Course Instructor Evaluation of Newman (Based from 1 (not effective) to 10 (extremely effective)): 9.1.

Quantitative Ecological Toxicology. (Summer). Five day short course. College of William and Mary=s Virginia Institute of Marine Science. Fourteen students. Sole instructor. Course Instructor Evaluation of Newman (Based from 1 (not effective) to 10 (extremely effective)): 9.1.

Quantitative Ecological Toxicology. ECOL863-863L (4 credits). University of Georgia Interdisciplinary Toxicology Program. Nine graduate students. Visiting Lecturer/Adjunct Faculty, May Session, Sole Instructor.

Advanced Ecological Risk Assessment. MS 697 (1 credit). (First Summer Session 1999). College of William and Mary's Virginia Institute of Marine

Science. Seven graduate students. Sole Instructor.

The Practice of Structure Activity Relationships (SAR) in Toxicology. Half day short course, Society of Toxicology Annual Meeting. Co-Instructor with six others.

The Practice of Structure Activity Relationships (SAR) in Toxicology. Half day short course, National Society of Toxicology and Chemistry Meetings, Co-Instructor with seven others.

Quantitative Ecological Toxicology. MS 640 (4 credits). (Spring Semester). College of William and Mary's Virginia Institute of Marine Science. Seven graduate students. Sole Instructor.

Calculating and Understanding Risk from Chemicals Released to the Environment. Five day short course, Risk Assessment Corporation RAC). Co-instructor with twelve others, San Antonio, TX.

Environmental Risk Assessment. MS 641 (3 credits). (Fall Semester). College of William and Mary's Virginia Institute of Marine Science. Seven graduate students. Sole Instructor.

1998 Independent Study: Quantitative Ecotoxicology. MS 697 (2 credits). (Summer Session 1). College of William and Mary's Virginia Institute of Marine Science. Three graduate students. Sole Instructor.

Quantitative Ecological Toxicology. (Summer). College of William and Mary's Virginia Institute of Marine Science. Sole instructor. Course Instructor Evaluation (Based from 1 (not effective) to 10 (extremely effective)): 9.0. **Quantitative Ecological Toxicology**. University of Georgia. Sole Instructor.

Course Instructor Evaluation (Based from 1 (not effective) to 10 (extremely effective)): 9.0.

Quantitative Ecological Toxicology. University of Joensuu (Finland). Sole instructor. Course Instructor Evaluation (Based from 1 (not effective) to 10 (extremely effective)): 9.1.

- 1997 **Quantitative Ecological Toxicology**. Royal Holloway University of London. Sole Instructor. Course Instructor Evaluation (Based from 1 (not effective) to 10 (extremely effective)): 9.1.
- 1996 **Quantitative Ecological Toxicology**. ECOL/EHS 863/863L. (4 credits). (Winter Quarter).University of Georgia. Sole Instructor. Course Evaluation (Overall; Based from 1 (poor) to 5 (excellent)): 4.70.
- 1995-96 **Quantitative Methods in Ecotoxicology**, Five-day short course. University of Georgia. Sole Instructor. Course Instructor Evaluations (Based from 1 (not effective) to 10 (extremely effective)): 9.3 in 1995; 9.0 in 1996.
- 1994 **Statistical Methods and Software for Toxicological Data Analysis**. Half day short course, Society of Environmental Toxicology and Chemistry Annual Meeting. Co-Instructor.
- 1988-98 **Research Advisor**. Research projects of five graduate students (three M.S. and one Ph.D. completed, one Ph.D. finishing) and three postdoctoral fellows.
- 1983-97 Advisor. University of Georgia. Summer student research program.

Independent research projects of thirteen undergraduate students.

- 1990 **Introduction to Ecology.** Biol. 350. University of Georgia--Athens. Department of Biology. Co-Instructor.
- 1984-88 **Man and The Environment.** Biol. 270. University of South Carolina--Aiken. Department of Biology. Co-Instructor.
- 1983 **Ecology and Man**. Biol. 20. University of California--San Diego, Department of Biology. Sole Instructor.
- 1978-80 **Pollution Microbiology Laboratory**. Teaching Assistant. Rutgers University, Department of Environmental Sciences. Sole Instructor.
- 1974-75 **Introductory Biology and Invertebrate Zoology**. Teaching Assistant. University of Connecticut, Department of Life Sciences.

STUDENTS MENTORED

<u>Degree</u>	Degree Granting University ²
MS	Miami University (Ohio)
MS	University of Alabama
MS	Wake Forest University
PhD	Rutgers University
PhD	University of Georgia
PhD	University of California - Davis
PhD	College of William and Mary
MS	College of William and Mary
PhD	College of William and Mary
PhD	College of William and Mary
PhD	College of William and Mary
MS	College of William and Mary
PhD	College of William and Mary
MS	College of William and Mary
	MS MS PhD PhD PhD PhD MS PhD PhD PhD PhD PhD PhD PhD PhD

²The Savannah River Ecology Laboratory has a well-funded graduate research program that allows students to come from any university to work on their degree research under the supervision of a SREL faculty member. Except for Longhi, all of these non-College of William & Mary students were mentored solely by M. Newman. Longhi was co-advised with another SREL faculty member.

Graduate Committee Member/External Examiner

<u>Name</u>	Degree,Role	<u>University</u>
Stephen Doggett	PhD,Committee Member	University of Georgia
Tod Morse	MS, Committee Member	University of Georgia
Heather Chapman	PhD, External Examiner	Griffith University (Queensland)
Kevin Kwok	PhD, External Examiner	University of Hong Kong

Sara Mirabilio Alex Jestel Christine Conrad Bruce Vogt Jun Young Kim Shana Rapoport Taiping Wang Tan Chew Khun Man-Yu Yum Treda Smith	MS, Committee Member MS, Committee Member MS, Committee Member MS, Committee Member PhD, Committee Member PhD, Committee Member PhD, External Examiner PhD, Committee Member MS, Committee Member
Man-Yu Yum Treda Smith Stefanie Gera	PhD, Committee Member MS, Committee Member MS, Committee Member

College of William and Mary University of Western Australia Iowa State University (Statistics) College of William and Mary College of William and Mary

Undergraduate Research Supervision

Since 1983, Dr. Newman directed summer research of thirteen undergraduate students. Those directed since 1990 are listed below. Five of the ten students listed produced a publication based on their summer research project. Eight went on to graduate school.

Name	Undergraduate University	<u>Summer</u>
M. Michelle Keklak	University of South Carolina - Aiken	1989-91
Stephen Diamond	University of Massachusetts	1989
Charles Lee	Duke University	1990, 1991
Michael Aplin	Pomona University	1991
Amy Faivre	Mount Holyoke College	1991
Carrie Thomas	University of Wisconsin - Madison	1993
Anne Osborn	Clemson University	1993
Christine Phelps	Eastern Michigan University	1994
Minghua Nie	University of Alabama	1996
Ashley Nance*	Hampton University	2006
Jochen Zubrod	University of Koblenz-Landau	2009
Frank Seitz	University of Koblenz-Landau	2009

2008/2009 One of 2 William & Mary faculty members who brought 6 (2008) and 5 (2009) undergraduate and graduate students to China on an international exchange grant (sGIG)

High School Senior Projects

<u>Name</u>	<u>School</u>	<u>Year</u>
Jennifer Scott**	Gloucester High School	2004/5
Sean Heatherman	Grafton High School	2004/5
Trevor Ottofaro	Governors School of Science & Technology	2008
Vi Nguyen***	Governors School of Science & Technology	2010

*Student project awarded honorary mention at NOAA-Education Partnership Program Conference (Washington, DC).

**Student project placed first in the environmental science category for the Virginia Academy of Science and won the Henry Mackenzie Scholarship (\$5000).

***Student project provided the basis for research of PhD student, Xu Xiaoyu, at VIMS.

High School Field Trips

Parent/Instructor in May 2005 New Horizons Governors School field trip to nature preserves in Costa Rica.

Postdoctoral/Visiting Faculty Supervision

<u>Name</u>	Years in Training	<u>Project</u>
Mary Gay Heagler	1991-1992	Allometry of metal bioaccumulation
Irvin R. Schultz	1993-1995	Metal toxicokinetics in fish
Eric L. Peters	1993-1995	Radionuclide toxicokinetics in fish
Xiong Li	2006-2007	Marine Ecotoxicology

FELLOWSHIPS AND GRANTS

In addition to the funding described below, EPA, College of William and Mary Reeves Center, UGA Research Foundation, National Society of Environmental Toxicology and Chemistry, International Society of Environmental Toxicology and Chemistry, Society of Environmental Toxicology and Chemistry - Europe (UK), University of Georgia=s Interdisciplinary toxicology program, the University of London - Royal Holloway, Australian Society of Ecotoxicology, and John Wiley & Sons have awarded funds for foreign travel to Dr. Newman. Numerous private consulting contracts to M.C. Newman are not listed.

Year	Proposal Title	Funded by
2012	Risk assessment of mercury in a lower Chesapeake Bay Vietnamese community (award to student)	Sea Grant
2011	Risk assessment of mercury in lower Chesapeake Bay seafood	Sea Grant
2010	Stable isotope-based trophic mixture models	URS
2010	Mercury terrestrial biomagnification	DuPont
2009	Mercury terrestrial biomagnification	DuPont
2008	Mercury biomagnification in the South River	DuPont
2008	Mercury trophic transfer in the Holston River	FWS
2007	Mercury: Hazard without Borders (S-GIG)	W&M College
2007	Mercury biomagnification models for the South River	DuPont
2007	Mercury bioaccumulation in periphyton of the Holston River	FWS/Olin
2007	Statistical/Risk assessment consulting to FWS	FWS
2005-06.1	Mercury biomagnification models for the South River: Aquatic and Floodplain Probabilistic ecorisk assessment for fish, Mammals, and birds at the Great Dismal Swamp	DuPont
	National Wildlife Refuge Statistical design and review of mercury Bioaacumulation data for the North Holston	FWS FWS

	River	
2005	Periphyton of the South River watershed,	DuPont
2005	Virginia: Mercury accumulation, bioavailabiliy	Daron
	And transformation	
2005-	Survival time models quantitatively predict	NOAA/CRRC
07	lethal effects of pulsed and different duration	
01	exposures to water-accommodated fractions of	
	spilt oil	
2002-04	Acceptability of pesticide effects on	UK DEFRA
2002 01	non-target species	
2002-2005	Statistical review of fish and wildlife assessment	US FWS
2002 2000	documents concerning mercury impacts	001110
2002-07	Establishment of a Mid-Atlantic COSEE	NSF
2001-02	Virginia Space Grant Consortium VAccess	NASA
2001-03	Science Advisory Panel Consultant	DuPont
2000	Bell Atlantic Distance Learning Grant (with	Bell Atlantic
	Christopher Newport University consortium)	
2000-	Research Experience for Undergraduates	NSF
03		
1999-	US DOE Contract, Science and Technology Needs	US DOE
00	for DOE Hanford Site ecological risk assessment	
	activities	
1998	UK Direct Toxicity Assessment (DTA) Demonstra-	UKWIR
	tion Programme: Phase II - Implementation of the	
	Esk Project Plan	
1998-	Are genetic diversity and genetic differentiation	EPA STAR
01	bioindicators of contaminant impact on natural	
	populations?	
1998-	Fate and effects of crop protectants from tomato	VDACS
01	cultivation on living resources in tidal creeks.	
1998-	A stochastic assessment of metal exposure to bald	UGA/SREL
99	eagles consuming fish and waterfowl from a reactor	
	cooling reservoir.	
1998-	Risk based approaches to the derivation and	NERC (UK)
02	expression of environmental quality standards.	
1998	Contract to develop two documents, Estimation of	OECD
	the percent level associated with the NOEC from	
	conventional ecotoxicity tests, and A layman's guide	
	to regression.	
1998	Scientific peer review of the EPA Region 2/CENAN	EPA Region 2
	framework for evaluating dredged material for	
	proposed placement at the HARS.	
1998	Short course, Quantitative Ecotoxicology, taught at	VIMS/UGA
	the Virginia Institute of Marine Science and	
	Savannah River Ecology Laboratory.	
1996-	SREL Ecotoxicology and Ecological Risk	USDOE-SRO
98	Assessment Program (EERAP).	
1995	QSAR-like models of mono-, di- and	UGA Fac.
	trivalent metal toxicity based on ion	Res. Grant
	qualities: Caenorhabditis elegans assay	
1991-	Mercury accumulation in mosquitofish	USDOE-SRO
94		NATO
1990	Population structure and adaptation by	NATO
	Helix aspersa to lead contamination	

1988	Heavy metal accumulation in crocodile	Un. of Florida
1988- 94	eggs Toxicokinetics of inorganic pollutants	SDOE-SRO
1987 1987- 88	Toxicokinetics of mercury in mosquitofish Benthic nutrient flux in a reactor cooling lake	USDOE-SRO USDOE-SRO
1986-89	Nutrient, light and temperature effects on autotrophic nutrient removal and algal growth in a cooling reservoir	USDOE-SRO
1984- 85	Comprehensive study of effects of thermal effluent discharge from DOE nuclear pro-	USDOE-SRO
1984	duction reactors on receiving water quality GPP proposal for ultraclean laboratory complex and laboratory addition	USDOE-GPP

RESEARCH

REFEREED PUBLICATIONS

Key: A technician (*), graduate student (**), undergraduate student (***), or postdoctoral fellow (****) for whom M.C. Newman was acting as a mentor.

- 2012 **Newman, M.C.** On being dragged into the NOEC squabble. Integ. Environ. Assess. Manag. 8(4).
- 2012 **Newman, M.C.** "What other choice is there?" Two alternatives to conventional null hypothesis significance testing. Environ. Toxicol. Chem. (In review).
- 2012 **Newman, M.C.** and D.A. Evans. Ecotoxicology, in Encyclopedia of Environmetrics. H. El-Shaarawi and W.W. Piegorsch, eds. John Wiley & Sons, Chichester, UK. (Revision of 2002 entry)
- 2012 Wang, J.,** **M.C. Newman**, X. Xiaoyu, A. Condon, and L. Liang. Floodplain methylmercury biomagnification factor higher and more variable than that of the contiguous South River (Virginia USA). Ecotox. Env. Safety (In press)
- 2012 Wang, J.** and **M.C. Newman**. Mercury dietary exposure of three bird species nesting on a contaminated floodplain (South River, VA, USA). Integ. Environ. Assess. Manag. (In review).
- 2012 **Newman, M.C.** Ecotoxicology. Chapter in *The Principles of Toxicology. Environmental and Industrial Applications*, Eds., P.L. Williams, R.C. James, and S.M. Roberts, John Wiley & Sons, New York, NY. (In press).
- 2012 **Holloman, E.L. and M.C. Newman. Expanding perceptions of subsistence fish consumption: evidence of high commercial fish consumption and dietary mercury exposure in an urban coastal community. Sci. Total Environ. 416:111-120.
- 2011 ** Carriger, J.F. and **M.C. Newman**. Influence diagrams as decision-making tools for pesticide management. Integ. Environ. Assess. Manag. (Online 19 Oct 2011).
- 2011 **Newman, M.C.**, X. Xu, A. Condon, and L. Liang. Floodplain methylmercury biomagnification factor higher than that of the contiguous river (South River, Virginia, USA). Environ. Pollut. 159: 2840-2844.

- 2011 **Newman, M.C.** Chapter 1. When scientific vantage is not enough. In: *Mercury Pollution. From Science to Humanities.* S. Zuber and M.C. Newman (Eds.), Taylor & Francis, Boca Raton, FL.
- 2011 **Newman, M.C.** and K.M.Y. Leung. Chapter 7. Mercury by the numbers. In: Mercury Pollution. From Science to Humanities. S. Zuber and M.C. Newman (Eds.), Taylor & Francis, Boca Raton, FL.
- 2011 **Bundschuh, M., J.P. Zubrod, F. Seitz, R. Schulz and **M.C. Newman**. Mercury contaminated sediments affect amphipod feeding. Arch. Environ. Contam. Toxicol . 60: 437-443
- 2010 **Newman, M.C.,** X. Xu, C.F. Cotton and K.R. Tom. High mercury concentrations in three deep ocean Chondrichthyans. Arch. Environ. Contam. Toxicol. DOI 10.1007/s00244-010-9584-4.
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¹ Wen-Xiong Wang (Hong Kong University of Science and Technology) reviewed the pre-release manuscript, stating "This book provides a very fundamental view of ecotoxicology from the perspective of quantitative analysis. It covers all the ecological aspects of toxicology. Overall, it will be an excellent book for students interested in environmental science." Valery Forbes (University of Nebraska – Lincoln) commented on the book, "Mike Newman's Quantitative Ecotoxicology provides a unique and much-needed addition to the ecotoxicological literature. He covers the most important ecotoxicological concepts ... and effectively combines these with the appropriate quantitative options and considerations for assessing these proceses. This book is like an ecotoxicology text and statistics text rolled into one."

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- 2001 ⁵Newman, M.C. *Population Ecotoxicology*. John Wiley & Sons, Chichester, UK, p. 228.
- 1998 **Newman, M.C.** *Fundamentals of Ecotoxicology*. Ann Arbor Press, Chelsea, MI, p. 402.
- 1995 **⁶Newman, M.C.** *Quantitative Methods in Aquatic Ecotoxicology.* CRC/Lewis Publishers, Boca Raton, FL, p.426. (1,178 copies sold as of August 25, 2009).

edition of *Fundamentals of Ecotoxicology* continues to improve on an outstanding book ... one of the best works available in ecotoxicology... fills a needed niche in ecotoxicology and will remain a staple on my bookshelf and in my classroom ... a work that Newman should count with pride."

³ A.R. Flegal (Univ.CA-Santa Cruz) reviewed this book for *Limn. Oceanogr. Bull.* (17(2): 2008), concluding "...I now find myself at awe of the breadth and depth of the new book by Newman and Clements (2008)...The book is simply the best that I have encountered...In summary, it is – in my opinion – the definitive book to date on the complex and emerging science of ecotoxicology." G. Suter (EPA) reviewed this book for *IEAM* (4(4), 2008), opining, " If you want to explore ecotoxicological issues, paradigms, and concepts yourself or with your students, this is the text for you." Reviewing for the *J. Hazard. Materials* (160:688, 2008), G.F. Bennett (Univ. Toledo) concludes, "I have only scratched the surface of this impressive book but suffice it to say, it is well written and to the extent I can evaluate its content is exceedingly well done." For *Intern. J. Environ., Anal. Chem*, (2008, Vol. 88(5)), J. Albaiges (CID-CSIC, Barcelona, Spain) summarized, "… highly informative, rich in details that are integrated as much as currently possible in the new science of ecotoxicology and, in summary, very pleasant to read. A milestone in the field …"

⁴ Reviews of the two editions of this book have been very positive. In a SETAC Globe book review, Dr. G. Rand states that the first edition was "an organized and highly readable text … fills an important void … the only published book to-date that is oriented for use as a basic introductory text … Overall this book will be of value to beginning students and to research investigators as a reference tool." Van Straalen (ES&T, Sept. 2003, page 326A), refers to the second edition as "the most comprehensive textbook available to date …"

⁵ In a SETAC Globe book review, G. Suter commented about this book, "…like his earlier volumes, Newman's latest is distinct in tone and content. A good scientific colleague is someone who stretches your perspective by asking and answering questions that you would not ask yourself. Through his many books and papers, Mike Newman has been a very good colleague to me and many other ecotoxicologists and risk assessors." In a review for the journal, *Water and Environment Journal* (2002, Vol. 16(2)), J. Hawkins comments that the book is "packed with theoretical ideas." ⁶ Reviewing this book for *Trans. Am. Fish. Soc.*, Clements stated that "…Newman's book is a refreshing and highly readable treatment of quantitative aspects of ecotoxicology … Overall, this book will be of tremendous value …" Dr. G. Suter begins his review column for the SETAC Globe, "Gary Rand reviews [here] Mike Newman's excellent text on quantitative ecotoxicology. I would like to add the observation that Mike has produced a *rara avis*, a single-authored book … He is to be commended for mastering this field and presenting it in a more coherent manner than is achieved by edited compilations."

BOOKS CURRENTLY BEING WRITTEN/TRANSLATED

2012 **Newman, M.C.** *Fundamentals of Ecotoxicology,* Third Edition. Turkish translation under contract for release February 2012. Palme Publishing Co., Ltd., Ankara, Turkey.

BOOKS EDITED/TRANSLATED

- 2011 **Newman, M.C.**, M. Roberts and R. Hale. *Coastal and Estuarine Risk Assessment*. Mandarin translation by Chinese Research Academy of Environmental Sciences (Dr. Zongyan Yang). China Ocean Science (Beijing)
- 2011 S. Zuber and **M.C. Newman**. *Mercury Pollution. A Transdisciplinary Vantage*, Taylor & Francis, Boca Raton, FL.
- 2002 Crane, M., **M.C. Newman**, P. Chapman and J. Fenlon. *Risk Assessment with Time-to-Event Models*. CRC Press LLC, Boca Raton, FL, p. 175.
- 2002 **Newman, M.C.**, M. Roberts and R. Hale. *Coastal and Estuarine Risk Assesment*. CRC Press LLC, Boca Raton, FL, p. 347.
- 1998 **Newman, M.C.** and C. Strojan. *Risk Assessment: Logic and Measurement.* CRC Press LLC, Boca Raton, FL, p. 352.
- 1996 **Newman, M.C.** and C. Jagoe. *Ecotoxicology: A Hierarchical Treatment*. CRC Press LLC, Boca Raton, FL, p.411.
- 1991 **Newman, M.C.** and A.W. McIntosh. *Metal Ecotoxicology: Concepts and Applications*. Lewis Publishers, Chelsea, MI, p. 399.

INVITED SCHOLARLY PAPERS AND TALKS

- 2011 Invited Speaker, Huazhong Normal University. Wuhan, P.R. China May Invited Speaker, Hubei University of Education. Wuhan, P.R. China - May Invited Speaker. India Erudite Program – March 2011 at the Cochin University of Science and Technology, School of Marine Sciences, Cochin, Kerala, India; Also University of Kerala, Trivandum. Four invited talks.
- 2010 Keynote speaker, EPPH Conference June 2010, Chengdu, China Keynote speaker, SETAC EU Conference – May 2010, Seville, Spain Lecturer (2 classes), Central China Normal University, Wuhan, China Invited Talk, SETAC Asia/Pacific Conference - June 2010, Guangzhou, China
- 2009 Invited instructor, Preparing Excellent Publications, Young Environmental Scientists (YES) Meeting – March 2009 at Universitat Koblenz-Landau (Germany)
- 2008 South China Institute of Environmental Sciences, Guangzhou Central China Normal University, Wuhan Jinan University, Guangzhou Virginia DEQ Biosolids Committee, Charlottesville, VA.
- 2007 Virginia DEQ Mercury Conference, Newport News, VA (Two Talks) Guangzhou Institute of Geochemistry, Chinese Academy of Sciences Fifth International Conference on Marine Pollution and Ecotoxicology, City University of Hong Kong (keynote)

2005	Toxicology and Risk Assessment Conference, Fairborn, OH ESA National Meeting, Montreal, Canada
2004	Texas Tech University (The Inst. Environ. & Human Health)
2001	UNESCO Lagoons and Coastal Wetlands in the Global Context. (keynote)
	Venice, Italy
2003	Physiology, Toxicology, and Water Quality - Tallinn, Estonia
2000	SETAC National Meeting (Meeting Opening Session)
	SETAC Mercury Indicators Workshop (Two Presentations)
2002	SETAC International Ecotoxicogenomics Workshop
	QSAR 2002 Workshop (keynote) – Ottawa, Canada
	Interact 2002 (keynote) – Sydney, Australia
2001	SETAC Annual Meeting
200.	College of Charleston
	Duke University
	Florida Atlantic University
2000	Delaware-Hudson Chapter of SETAC
1999	DuPont Haskell Laboratory
	US DOE Hanford Complex - Battelle PNNL Laboratory (Two Presentations)
	University of Maryland - Baltimore (Dept. of Biol. Sci.)
	Society of Toxicology Annual Meeting
	Risk Assessment Corporation Short Course
	International Symposium on Pollutant Responses in Marine Organisms (PRIMO)
	Meetings (Two Presentations)
1998	SETAC-Europe (UK) Spring Meeting, Improving risk assessment with time-to-
	event methods (Two Presentations)
	SETAC-Europe (UK) 9th Annual Meeting, Forecasting the Environmental Fate
	and Effects of Toxic Chemicals
1997	University of London - Royal Holloway
	Current Issues on Chemical Mixtures, Colorado State University
1000	EPA ECOFRAM Group, Washington, DC
1996	Muhlenberg College
	University of New Haven
	Chesapeake Biological Laboratory
	National Society of Environmental Toxicology and Chemistry Annual Meeting
1995	Savannah River Environmental Sciences Workshop
1995	Georgia Institute of Technology Christopher Newport University
	University of London - Royal Holloway
	University of Reading (UK)
	Second International SETAC Congress (Vancouver, B.C.)
1994	U.S./Israeli Workshop on Water Quality Modeling and Monitoring (Haifa, Israel)
1992	U.S. EPA - Duluth
1002	Clemson University - TIWET
	SETAC 10th Pellston Conference
	National Society of Environmental Toxicology and Chemistry Annual Meeting

1991	Joint seminar, Creighton University and University of Nebraska, Omaha
	University of Nebraska, Lincoln Memphis State University
	Southwestern Louisiana University
	East Tennessee State University
	National Society of Environmental Toxicology and Chemistry Annual Meeting (Two Presentations)

- 1990 Lenoir-Ryhne College
- 1989 Tennessee Technical University Tulane University University of California--Davis Western Washington University
- 1988 Rutgers University (Seminar and Lecture) Voorhees College (Two Presentations) South Carolina Laboratory Management Society Annual Meeting (Three Presentations) DuPont Savannah River Laboratory (Two Presentations)
- 1987 Virginia Polytechnic Institute and State University National Society of Environmental Toxicology and Chemistry Annual Meeting

CONTRIBUTED SCHOLARLY PAPERS AND TALKS

- 2009 The 9th International Conference on Mercury as a Global Pollutant. Guiyang, China (1 Talk).
- 2008 SETAC National Meeting (Tampa, FL)(Three presentations)
- 2007 SETAC National Meeting (Milwaukee, WI)(Two presentations)
- 2006 SETAC Europe, The Hague, The Netherlands (Two presentations)
- SETAC National Meeting (Quebec)(Two presentations)
- 2005 SETAC Europe, Ille, France
- 2004 SETAC National Meeting ASLO (co-author) Savannah, GA American College of Clinical Pharmacology
- 2003 SETAC National Meeting Ocean Research Integrated Observatory Networks Meeting (San Juan, PR)
- 2002 SETAC National Meeting (Two presentations)
- 2001 SETAC National Meeting (Two presentations) International Society of Environmental Toxicology and Chemistry Meeting in
- Madrid, Spain. 2000 National Society of Environmental Toxicology and Chemistry Annual Meeting
- (Five Presentations) EPA STAR Annual Meeting

Society of Environmental Toxicology and Chemistry International Congress (Two Presentations)

- 1999 National Society of Environmental Toxicology and Chemistry Annual Meeting (Three Presentations)
- 1998 ASTM 8th Symposium on Environmental Toxicology and Risk Assessment

	SETAC-Europe 8 th Annual Meeting (Two Presentations) National Society of Environmental Toxicology and Chemistry Annual Meeting
	(Two Presentations)
1997	National Society of Environmental Toxicology and Chemistry (Four Presentations)
	SETAC-Europe 7 th Annual Meeting, Amsterdam, The Netherlands
1996	National Society of Environmental Toxicology and Chemistry (Two
	Presentations)
	American Malacology Union
1005	ASTM Meetings
1995 1994	Second International SETAC Congress (Four Presentations) Savannah River Environmental Sciences Workshop (Two Presentations)
1994	Evolution Society Annual Meetings
	Carolinas SETAC Annual Meeting
	National Society of Environmental Toxicology and Chemistry (Three
	Presentations)
1993	First International SETAC Congress (Lisbon, Portugal, Two Presentations)
	National Society of Environmental Toxicology and Chemistry (Four
	Presentations)
1992	Carolinas SETAC Annual Meeting
	National Society of Environmental Toxicology and Chemistry (Four
1001	Presentations)
1991	National Society of Environmental Toxicology and Chemistry (Two Presentations)
1990	National Society of Environmental Toxicology and Chemistry (Five
1330	Presentations)
	NSF Population Biology Meetings (PBONE and SEEG)
	International Metals Conference (Four Presentations)
1989	Institute of EcologyUniversity of Georgia
	American Society of Limnology and Oceanography (Two Presentations)
	South Carolina Laboratory Management Society (Two Presentations)
	National Society of Environmental Toxicology and Chemistry (Two
4000	Presentations)
1988	Evolution Society Annual Meetings
	American Society of Limnology and Oceanography (Two Presentations) International Conference on Contaminants in the Environment
	Savannah River Ecology Laboratory
1987	American Chemical Society Metal Speciation WorkshopJekyll Island Annual
	Meeting
	American Society of Limnology and Oceanography (Two Presentations)
	National Society of Environmental Toxicology and Chemistry Annual Meeting
1986	International Malacological Congress (Edinburgh, U.K.)
	American Chemical Society
	Regional Society of Environmental Toxicology and Chemistry
	National Society of Environmental Toxicology and Chemistry

	South Carolina Laboratory Management Society Annual Conference American Water Works Association Water Quality Technology Conference Southeastern Workshop on Ecological Effects of Power Generation
1985	Department of Energy, Savannah River Plant
	American Society of Limnology and Oceanography
	National Society of Environmental Toxicology and Chemistry
1984	Department of Energy, Savannah River Plant
1983	American Society of Limnology and Oceanography
	University of Georgia, Savannah River Ecology Laboratory
1982	New Jersey Academy of Sciences Annual Meetings
	American Society of Limnology and Oceanography
1981	University of Georgia, Savannah River Ecology Laboratory
	New Jersey Academy of Sciences Annual Meetings
	Shellfish Association Annual Meeting
	American Malacological Union
	American Association for the Advancement of Science Winter Meetings
1980	Water Conference Proceedings, Ramapo College

1980 Water Conference Proceedings, Ramapo College 1977 University of Delaware, College of Marine Studies

PUBLISHED PHOTOGRAPHY

- 2012 "Beijing's Forbidden City surrounded by smog at midday" that appeared in *Nature* (Careers) March 15, 2012; Vol. 483, page 364.
- 2012 Newman, M.C. *Quantitative Ecotoxicology, Second Edition*. Taylor & Francis, Boca Raton, FL. Cover photograph of Australian Pied and Sooty oystercatchers foraging in intertidal zone.
- 2012 S. Zuber and M.C. Newman (Eds.),*Mercury Pollution. From Science to Humanities*. Taylor & Francis, Boca Raton, FL. Two B&W photographs. "The Cape du Couedic Lighthouse, Kangaroo Island, Australia" and "Coal train from Yellow Crane Tower, Wuhan, China."
- 2010 Unbearable Beauty. Triumph of the Human Spirit. Photographs by W. Eugene Smith and Aileen M. Smith, Catalogue for the exhibition by the same name held at the Muscarelle Museum of Art at The College of William & Mary in Virginia, 24 April–20 June, 2010. B&W photograph of the Cape du Couedic Lighthouse, Kangaroo Island, Australia.
- 2009 Newman, M.C. *Fundamentals of Ecotoxicology. Third Edition*. Numerous B&W and color photographs including book cover photographs.
- 2002/7 Newman, M.C. and Unger, M., *Fundamentals of Ecotoxicology*. CRC/Lewis LLC. Figures 8.2, 12.1, and 12.2, including Chinese addition.
- 2000 Newman, M.C. *Population Ecotoxicology*. John Wiley and Sons, London, Cover photograph.
- 1998 Newman, M.C. *Fundamentals of Ecotoxicology*. CRC/Lewis LLC. Figures 8.2, 12.1, and 12.2
- 1997 Meffe, G.K. and C.R. Carroll. *Principles of Conservation Biology*. Sinauer Associates, Inc., Sunderland, MA. Figure 1.6d.

1997 Beeby, A. and A.-M. Brennan. *First Ecology*. Chapman & Hall, London. Plates 1 and 12. Biosphere II.

SOFTWARE

- 2003 **vUNCENSOR 5.1**. Window-based and expanded version of the UNCENSOR program described below.
- 1996 **RENOEC.** Developed by M.C. Newman and R. Jagoe. This program implements a resampling method for estimating community-level NOEC or NEC values.
- 1996 **SAMPSIZE**. Developed by R. Jagoe and M.C. Newman. This program calculates the minimum number of samples or replicates necessary to obtain a desired level of statistical confidence.
- 1990-95 **UNCENSOR V 2.0/3.0/4.0,** 1990/92/95. Developed under the joint direction of M.C. Newman and P.M. Dixon. The program implements a variety of statistical methods of handling analytical data sets with "below detection limit" observations.
- 1995 **STRESS. V 1.0.** Developed by M.C. Newman, D. Morgan, and R. Jagoe. This program simulates demographic and genetic changes in populations exposed acutely and/or chronically to toxicants. It is an individual-based model capable of simulating selection including viability, sexual, fecundity, and gametic selection, and meiotic drive.

PROFESSIONAL AND ADVISORY SERVICES

SCIENTIFIC ADVISORY AND STEERING GROUPS

- 2012 Statistical advice and analysis related to Gulf oil spill.
- 2012 Review proposed regulatory guidelines for California State Water Research Control Board (coordinated by UCA - Berkeley)
- 2012 Review NAS NRC draft report of Board on Environmental Studies and Toxicology.
- 2001-2012 DuPont South River Science Expert Panel
- 2010 DuPont South River Innovative Remediation Committee Panel Member, EPA Lead NAAQS Workshop
- EPA Advisory Panel Member, Environmental Impacts of Mountaintop Mining and Valley-fill Operations, and on Conductivity DuPont South River Innovative Remediation Committee
- 2009 DuPont South River Innovative Remediation Committee
- 2008-2012 Areas of Excellence Committee Member. Hong Kong Universities Areas of Excellence, Center of Marine Environmental Research and Innovative Technology (MERIT).
- 2005-2012 Associate. WCA Environment Limited. Faringdon, Oxfordshire, UK.
- 2006-2011 Owner. Newman Environmental Consulting, Seaford, VA

2004-08 **Consultant** to Versar, Inc. review of EPA document, *Technical Review of Acetonitrile (Methyl Cyanide)*. Also, review of the EPA draft document, *Ambient Aquatic Life Criteria for Lead*.

Committee Member. EPA Clean Air Scientific Advisory Committee for Lead. 2007-2008.

Member of National Academy of Science NRC Review Committee for the OMB Risk Assessment Bulletin, 2006-2007.

Consultant to Versar, Inc. review of EPA document, *Draft Method 166A Interlaboratory Validation Study*, 2007.

Consultant to Versar, Inc. review of EPA document, *Draft Method III: Pesticides in Water, Soil, Sediment, Biosolids and Tissue by HRGC/HRMS*, 2007.

Consultant to Versar Inc. review of EPA document, *Estimation of Biota Sediment Accumulation Factor (BSAF) from Paired Observations of Chemical Concentrations in Biota and Sediment*, 2006.

Consultant to Versar, Inc. review of EPA formulation of toxic weighting factors in support of CWA 304(m), 2006.

Consultant to Versar, Inc. providing technical review of EPA Chromium Antimony Titanate assessment, 2006.

Member of EPA STAA 2006 Review Committee

Member of EPA EPEC Committee reviewing the federal government's implementation of ecological risk assessments, 2006.

Member of EPA Clean Air Lead Scientific Advisory Committee, 2006-2008.

Member of EPA SAB Ad Hoc Team to review EPA Region 6 sampling plan, Emergency response quality assurance sampling plan for Hurricane Katrina response support Interstate Highways 10 and 610 intersection, New Orleans, Orleans Parish, Louisiana.

Member, EPA SAB PCB Artificial reef risk assessment panel.

Member, EPA SAB Aquatic Life Criteria consultative panel.

Member, EPA SAB Region 6 GIS Screening Tool review panel.

Member. EPA SAB Scientific and Technological Achievement Awards Panel, 2005.

Member, EPA FIFRA Scientific Advisory Panel. Review of potential human and ecological risk from Widestrike cotton, a genetically modified cotton incorporating the BT gene.

Member. Virginia DEQ mercury contamination advisory panel. **Technical Support Consultant**, TN&A/EPA-NCEA. Case study of incorporating empirical data and expert judgment in Bayesian Belief Networks (BBN) including Phase II, expert elicitation study.

Statistical Consultant. Fish & Wildlife Service (Gloucester Point, VA). Correlation between Peregrine falcon egg quality and chemical contaminants.

External Reviewer, DuPont. Quality review of scoping risk ecological risk assessment for VX nerve agent treatment hydrolysate.

Member, FIFRA Scientific Advisory Panel. Review and refine terrestrial and aquatic ecological risk assessment models.

2002 **Recipient**, SETAC Founder's Award. According to the SETAC Award's Committee SOPs, "This award is the highest SETAC Award, given to a person with an outstanding career who has made a clearly identifiable contribution in the environmental sciences that is consistent with the goals of SETAC."

Member, Virginia Dept. of Environ. Quality. Mercury Contamination Advisory Committee

Chair, SETAC Workshop (Mercury Monitoring and Assessment) **Reviewer** of draft OECD Guidance document on the statistical analysis of ecotoxicity data.

Reviewer of industry position paper on chromium contamination in Baltimore Harbor for the Maryland Dept. of the Environment.

Reviewer of Baltimore Harbor contaminant modeling report for Maryland Dept. of the Environment.

Member of EPA SAB Scientific and Technological Achievement Awards 2003 Nominations Committee.

Member of EPA Committee providing guidance in development of national suspended and bedded sediment criteria.

Member of EPA EPEC Committee reviewing the federal government's implementation of ecological risk assessments (self-initiated study).

FWS Advisor, Holston River Assessment Plan for Saltville NPL Site. **FWS Advisor**, Statistical analysis of peregrine falcon nesting success data for Mid-Atlantic region.

Reviewer of EPA Region II document, Sediment quality of the NY/NJ Harbor – A 5-year revisit.

Document Reviewer for VERSAR Inc., Preliminary administrative determination – ferric ferrocyanide qualifying as one of the "cyanides". **Member** of EPA Chesapeake Bay Toxics Advisory Committee. **Board Member**, EPA Science Advisory Board (EPEC & Awards Committee duties).

2002 **Review Panel Member and Document Lead Author** for EPA Metals Assessment Workshop.

Review Panel Member for the U.S. EPA Atlantic Ecological Division. **Reviewer** of the National Academy of Science report, *Progress towards Adaptive Monitoring and Assessment for the Everglades Restoration Plan.* **Expert Consultant** to National Academy of Science (Everglades Ecosystem Assessment).

 2001-03 Member of Scientific Advisory Board to EPA Administrator Whitman.
 2001 Member of EPA Chesapeake Bay Office Science Advisory Panel Reviewer of US DOE - Hanford risk assessment report for chromium

	Consultant. TN & Associates. Statistical modeling of effects of Ahr-
	mediated toxicants on avian species.
	Member , Virginia Department of Environmental Quality Scientific Advisory Panel.
	Member , EPA Food Quality Protection Act (FQPA) Scientific Review Board.
	Member , EPA FIFRA Scientific Advisory Panel (SAP - Nontarget Plant, Ecological Effects Test Guidelines).
	Reviewer, Proposed Ph.D. program in marine biology at the University of North Carolina - Wilmington.
	Peer Reviewer , Preliminary Report: Interlaboratory Variability Study of EPA Short-term Chronic and Acute Whole Effluent Toxicity Test Methods (WET Study Report).
	Member of EPA FIFRA Scientific Advisory Panel (SAP - Aquatic Effects Assessment).
2000-01	Member of SETAC Pellston Conference Steering Committee, Uncertainty Analysis in Ecological Risk Assessment.
2000	EPA Evaluator , Sediment Quality of the New York/New Jersey Harbor System - Trend Assessment.
1999-01	Member , US DOE (Hanford Site) Risk Assessment, Science and Technology Needs Working Group.
1995-00	Member , OECD Working Group charged with revising standard statistical methods for analyzing ecotoxicity data (Nominated as one of three U.S. participants and accepted invitation in 1995 and 1996). One of two invited US members of the six-member Steering Group to draft recommendations for improving OECD guidelines.
1999	Reviewer selected by the EPA Office of Research and Development to assess the technical soundness of the document, <i>Comparative Ecological Risk Assessment. Ecological Risks to the Tampa Bay Ecosystem from Spills of Fuel Oil #6 and Orimulsion.</i> ⁷
1997-99	Member , EPA work group on evaluating ecological risk and developing FIFRA probabilistic tools and processes.
1995-96	Member of complex-wide DOE Working Group for establishing data quality objectives for ecological assessments.
1994-97	Savannah River Ecology Laboratory Liaison to DOE Savannah River Site for ecological risk assessment activities.
1994	Participant and Speaker . Selected as one of eight US participants/speakers in a joint Israeli Institute of the Environment/US EPA workshop on monitoring and modeling water quality. The workshop was held in Haifa, Israel.

EDITORIAL POSITIONS

Current Editor of book series, *Environmental and Ecological Risk Assessment*, CRC/Lewis Press (since 2000).

- 2007-10 Editor (Critical Reviews), Environmental Toxicology and Chemistry
- 2000-07 Editor (Aquatic Toxicology), Environmental Toxicology and Chemistry 2000-06 Associate Editor for Ecotoxicology
- 1999-03 **Member of Editorial Board** for *Risk Analysis: An International Journal*
- 1994-99 Editor (Aquatic Toxicology), Environmental Toxicology and Chemistry
- 1994-98 **Member of Editorial Board** for Archives of Environmental Contamination and Toxicology
- 1994-98
 Member of Editorial Board for Advances in Trace Substances Research
 1997
 Member of Standard Methods Committee (AWWA-APHA-WEF) Joint
 Task Group for Section 8420 Rotifers; Standard Methods for the
 Examination of Water and Wastewater.
- 1995-96 **Member of Editorial Board** for series, *Current Topics in Ecotoxicology* and Environmental Chemistry
- 1992-94 Editorial Board Member for Environmental Toxicology and Chemistry

OFFICES IN PROFESSIONAL SOCIETIES

Miscellaneous

- 2009 **Session Co-chair**, The 9th International Conference on Mercury as a Global Pollutant, Guiyang, China.
- 2004 **Scientific Committee Member**, Lagoons and coastal wetlands in the global change context. Impacts and management issues (Venice, Italy)
- 2002 Session Chair, Fish Physiology, Toxicology, and Water Quality (Tallinn, Estonia)

Session Chair, Interact 2002 (Sydney, Australia) **Session Chair**, Whole Effluent Toxicity Testing

Society of Environmental Toxicology and Chemistry

2010 Workshop Instructor, SETAC Asia/Pacific, Vietnam, Introduction to ecological risk assessment. Ho Chi Minh City University of Technology (140 students). Session Co-chair, SETAC Asia/Pacific Meeting, Guangzhou, China 2003-04 Short Course Instructor, statistical analysis of ecotoxicity test data 2003 **Recipient**, SETAC Founder's Award Chair of steering committee that held the workshop, Mercury Monitoring 2002-03 and Assessment, in Pensacola, FL Co-chair of session on mixture effects Short Course Instructor, Statistical analysis of toxicity data **Co-chair** of session at annual SETAC Meeting Organizing Panel, Pellston 2001 Conference on Uncertainty in Environmental Risk Assessment 1998 Planning Committee Member, SETAC-Europe (UK) Meeting, Improving Risk Assessment with Time-to-Event Methods 1993 Awarded Certificate of Appreciation (1993) for committee and local chapter service

Organizer, Global Conference session, Pollution Effects on Genetic

Variation and Diversity (Lisbon, Portugal)

- 1992-94 **Chair** of Awards Committee
- 1991-92 First President of Carolinas Regional Chapter
- 1991-92 **Member** of SETAC Regional Chapters Committee
- 1991-92 **Member** of SETAC Long Range Planning Committee
- 1990 **Chair** of session, Heavy metal contamination in aquatic systems
- 1990-91 **Founder** of Carolinas Regional Chapter
- 1988-92 **Member** of Awards Committee International Conference on Metals in Soils, Waters, Plants and Animals
- 1990 **Member** of Program Committee
- 1990 **Chair** of special workshop, *Ecotoxicology of Metals: Current Concepts and Applications*. Coeditor of resulting book (Lewis Publishers)
- 1988-96 **Coordination** of vendor participation South Carolina Laboratory Management Society
- 1988-89 Session Chair
- 1989Board of Directors
- 1988-89 **Chair** of Abstract Selection Committee

ADMINISTRATIVE TRAINING, EXPERIENCE AND RECOGNITION

- 2007 **Member**, Administrative Review Committee for Provost, College of Liberal Arts and Sciences.
- 2002 **Special Recognition** by VIMS Advisory Council for exceptional service as Dean of Graduate Studies. The Advisory Council is composed of regional leaders who provide guidance to VIMS relative to strategic planning, fund raising, education, and regional service.
- 2003 **Chair**, Administrative Review Committee for VIMS/SMS Director of Planning and Budget.
- 2001-02 **Head** of ITNS and administrative team charged with acquiring funds for, formulating plans for, and installing state-of-the-art instructional technologies at the School of Marine Science.
- 2001 **Chair**, Administrative Review Committee for VIMS Director of ITNS
- 1999 **Chair**, Administrative Review Committee for VIMS Director of Research and Advisory Service.
- 1999-02 **School of Marine Science Member**. College of William and Mary Graduate Studies Council. This council supports and makes recommendations to the Provost on issues of graduate programs and fosters implementation of college-wide issues
- 1999-02 **Member**, VIMS Administrative Council
- 1999-02 **Dean of Graduate Studies**, The College of William and Mary, School of Marine Science (SMS).
- 1996-97 **Head**. University of Georgia=s SREL. Ecological Toxicology, Remediation, and Risk Assessment (ETRRA) Group. Groups at the Savannah River Ecology laboratory are similar to university departments.
- 1983-87 Head. University of Georgia's SREL Water Quality Laboratory

(Supervised 11 technical and clerical staff).

1983-87 American Management Association course work in the following topics: Management for First Line Supervisors, Effective Communication Skills and Techniques, and Basic Management Skills.