

CURRICULUM VITA

A) Personal History

Name: Kunigelis, Stan C.

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Division of Basic Medical Sciences
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B) Education

<i>YEAR</i>	<i>DEGREE/DIPLOMA</i>	<i>PROGRAM</i>	<i>INSTITUTION</i>
1984	Ph.D.	Biology (Physiology)	York University (New neuroendocrinology group established)
1978	M.Sc.	Biology	York University
1975	Honours B.Sc. ¹	Biology	York University
1971	High School (grades 9-13)	5 Year Arts and Science	Northview Heights Secondary School

C) Theses

Ph.D: The regulation of shell growth and shell repair in *Helisoma duryi*: *in vivo* and *in vitro* studies.
M.Sc: The influence of photoperiod and the role of the brain in the control of shell growth in the pulmonate gastropod, *Helisoma duryi* (Wetherby).

D) Experience

I. Research Related

<i>DATE</i>	<i>INSTITUTION</i>	<i>SUBJECT</i>	<i>SUPERVISOR</i>
71 - 73 (summer)	Connaught Medical Research Labs	Quality Control: Chemistry	Dr. M. Morello

¹ In the Canadian Educational system of this vintage, a student completed a three year bachelor's degree (BS) following high school grade 13 (K-13). Given meritorious academic performance, a student may be invited to conduct a fourth year of study to generate an Honors B.Sc. The modern Canadian system is now aligned with the American system of K-12 plus 4 years for a baccalaureate.

78 - 79	Huntsman Marine Science Centre, St. Andrews, New Brunswick, Canada	Marine Biology Teaching Assistant (invertebrate identification, anatomy, physiology and ecology)	Dr. G.M. Jones
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II. Teaching Assistantships (York University)

<i>YEAR</i>	<i>COURSE</i>	<i>TITLE</i>	<i>INSTRUCTOR</i>
1975 (F)	BIO 303.4	Invertebrate Zoology	Dr. A.S.M. Saleuddin
1976 (F)	BIO 303.4	Invertebrate Zoology	Dr. A.S.M. Saleuddin
1977 (W)	BIO 420.3	Invertebrate Physiology	Dr. K.G. Davey
1977 (F)	NS 162.6	Biology of Man	Dr. B.G. Loughton
1977 (F)	NS 162.6	Man in the Ecological Context	Dr. B.G. Loughton
1978 (S)	ATK 184.6	Man and Medicine	Dr. A.S.M. Saleuddin
1978 (F)	BIO 306.4	Comparative Physiology	Dr. R.A. Webb
1979 (F)	BIO 306.4	Comparative Physiology	Dr. R.A. Webb
1980 (F)	BIO 303.4	Invertebrate Zoology	Dr. A.S.M. Saleuddin
1980 (W)	BIO 214.4	Genetics	Dr. P.B. Moens
1981 (F)	BIO 303.4	Invertebrate Zoology	Dr. B.G. Loughton
1982 (F)	BIO 303.4	Invertebrate Zoology	Dr. A.S.M. Saleuddin

III. Teaching Instructorships

Principles of Physiology	Duke University	1988-1990
Principles of Animal Physiology	Duke University	1990-1991
Human Physiology and Anatomy I & II	University of Connecticut	1991-1994
Humane and Ethical Treatment of Animals in Research and Teaching	University of Connecticut	1992-1993
Comparative Physiology (graduate-level course)	University of Connecticut	1994
Introduction to Biology	Clinch Valley College, UVA	1994-
Principles of Biology	Clinch Valley College, UVA	1994-
Human Anatomy	Clinch Valley College, UVA	1994-
Animal Physiology	Clinch Valley College, UVA	1995-
Parasitology	Clinch Valley College, UVA	1995-
Invertebrate Zoology	Clinch Valley College, UVA	1995-
The Human Brain	Clinch Valley College, UVA	1997-
Scanning Electron Microscopy: Theoretical Concepts	Clinch Valley College, UVA	1994-
Scanning Electron Microscopy: Practical Concepts I	Clinch Valley College, UVA	1994-
Scanning Electron Microscopy: Practical Concepts II	Clinch Valley College, UVA	1994-
Scanning Electron Microscopy: Research Methods	Clinch Valley College, UVA	1994-
Advanced Marine Biology (Biol 375.4)	CVC Field Course at FSUML	1996-
An Introduction to Marine Biology (Biol 275.3)	CVC Field Course at FSUML	1997-
Science: The New Way	CVC K-8 Lead Teacher Program	1997
Stained Glass: Copper Foil Methodology	UVa-Wise's ART 395	F'99-
Stained Glass: Lead Came Methodology	UVa-Wise's ART 495	F'99-
Introduction to Biological Diversity	Uva-Wise's Biol 104.114 (majors)	S'02-
Neurobiology	UVa-Wise's Biol 415	F'04-
Neurophysiology Laboratory	UVa-Wise under development	S'06
Aging	UVa-Wise Biol 495	S'08
Nursing A&P (2 semester sequence)	UVa-Wise Biol 203 & 204	F'08

E) Professional Positions

- i) Research Associate, Dept. Zoology, Duke University, 1984 - 1991.
- ii) Instructor in Physiology (Temporary), Duke University, 1985 - 1987.
- iii) Assistant Professor (Temporary), Duke University, 1988 - 1991.
- iv) Science Education Specialist (Lecturer II), Department of Physiology and Neurobiology, University of Connecticut, 1991 -1994.
- v) Associate Professor of Zoology, UVa-Wise, 1994-2009 (tenure awarded S'98).
- vi) Associate Professor of (Patho)Physiology, LMU- DCOM Basic Medical Sciences (1999→)

YEAR	POSITION
2010	DCOM PA Program Physiology/Pathophysiology Program Coordinator (PAS 515-518) Member of Health Sciences Research and Grants Committee Coordinator of LMU Electron Microscopy Facility Chair, Physiology Search Committee II
2009	DCOM PA Program Physiology/Pathophysiology III-IV Course Coordinator Coordinator of LMU Electron Microscopy Laboratory Chair, Physiology Search Committee I
2008	Academic Enhancement Committee, Chair UVa-Wise Animal Care and Use Committee, Chair Co-PI Department of Education MSP Grant (\$233K)
2007	Academic Enhancement Committee, Chair UVa-Wise Animal Care and Use Committee, Chair Promotion and Tenure Committee Departmental <i>ad hoc</i> Committee on Peer Evaluation (S'07) Co-PI Department of Education MSP Grant (\$233K)
2006	UVa-Wise Animal Care and Use Committee, Chair Promotion and Tenure Committee Departmental <i>ad hoc</i> Committee on Peer Evaluation (S'07)
2005	UVa-Wise Animal Care and Use Committee, Chair
2004	Faculty Development Committee Turkish University Relations Faculty Relations Committee (S'04) Faculty Committee on Evaluation Human Investigation Committee, Chair (S'04) Animal Care and Use Committee, Chair
2003	Faculty Relations Committee Turkish University Relations Promotion and Tenure Faculty Committee on Evaluation Human Investigation Committee, Chair Animal Care and Use Committee, Chair
2002	Chair, Human Investigation Committee Faculty Relations Committee Promotion and Tenure Committee Turkish University Relations Committee Faculty Adviser for ODK National Honor Society
2001	Academic Appeals Committee Faculty Relations Committee Turkish University Relations Science Building Committee Human Values Committee Biology Curriculum Committee Biology Search Committee Promotion and Tenure Committee Member, Human Values Committee, 1998-2001
2000	Science Building Committee Human Values Committee

	Honors Committee Biology Search Committee Campus Police Search Committee Webmaster Search Committee Academic Enhancement Committee, Chair
1999	Chair, Faculty Development Committee 1995-1999 Science Senator, 1996-1999 Vice-Chair, CVC Faculty Senate S'99 Member, Honors Program
1998	Chair, Academic Enhancement Committee Secretary, CVC Faculty Senate, S'98 Chair, Faculty Development <i>ad hoc</i> Committee on Sabbatical Leave Formation, 1996-1998

Chair, Institutional Animal Chair and Usage Committee, 2003-
Chair, Human Investigation Committee 2002-2004
Member, Promotion and tenure committee 2006 -
Director, Medical Technology Program 1994-2006
Director, Vivarium 1994-2003
Member, Faculty Development Committee 1994-1995
Member, Learning and Technology Committee 1994-1996
Member, Lecture Committee 1995-1997
Member, Faculty Senate *ad hoc* Bylaws Committee
Member, Human Values Committee, 1998-current
Member, (New) Science Building Committee 1997-current
Member, Honors Program F'99-current
Chair, Faculty Development Committee 1995-1999
Chair, Faculty Development *ad hoc* Committee on Sabbatical Leave Formation, 1996-1998
Chair, Academic Enhancement Committee 1998-1998
At-Large Senator, 1995-1996
Science Senator, 1996-1999
Secretary, CVC Faculty Senate, S'98
Vice-Chair, CVC Faculty Senate S'99
Faculty Secretary, OΔK National Leadership Honors Society 2001- current

- vi) Appalachian Regional Electron Microscopy Association, Secretary/Treasure Elect, 1997
- Appalachian Regional Electron Microscopy Association, Secretary/Treasure, 1998-2002
- Appalachian Regional Electron Microscopy Association, Biological Representative 2002-2006
- Appalachian Regional Electron Microscopy Association, President Elect (2007-2009 Term)
- Appalachian Regional Electron Microscopy Association, President Elect (2009-2011 Term)

F) Awards

- i) Hargitt Fellowship, Duke University, 1985 and 1986.
- ii) Recipient of (Duke) University Research Council Grants, 1987 - 1990.
- iii) CVC Outstanding Research Award of 1996.
- iv) Eisenhower Grant for Lead Teacher Training 1996, 1997.
- v) CVC Outstanding Teaching Award of 1999.
- vi) Science for All Partnership. Virginia department of Education. Maurer and Kunigelis. \$235K. 2007-2008.
- vii) Harrison Award for Outstanding Service (UVa-Wise; May 06, 2008)

G) Student Research Supervision

I have involved the following undergraduate students in my research program to date:

Duke University

- i) Melissa McIntyre -lab assistant, research assistant, undergraduate thesis
- ii) Kenneth Smith -laboratory assistant
- iii) Zachary Nowlan -laboratory assistant
- iv) Christian Giordina -lab assistant; research assistant

- v) Debbie Petrucelli -lab assistant; research assistant
- vi) Gene Hernandez -research assistant
- vii) Charles Kanos -lab assistant, research assistant, undergraduate thesis
- viii) Kristi Montgomery -undergraduate research thesis
- ix) Kurt Jones -undergraduate research thesis
- x) Julie Baskin -undergraduate research thesis

University of Connecticut

- xi) Jim Hartman -undergraduate research thesis
- xii) Susan Ratigan -undergraduate library thesis and research thesis
- xiii) Herman Wong -undergraduate research thesis
- xiv) Stacey Ramsey -undergraduate research thesis
- xv) James Forgione -undergraduate research thesis

Clinch Valley College of the University of Virginia

- xvi) Marnie Mullins -*Helix aspersa* Microsurgery
- xvii) Mike Kiser -*Hymenolepis* Life Cycle (SEM)
- xviii) Bryan Arnette -*Melongena* Embryonic Development (SEM)
- xix) Monica Clisso -Influence of Salinity on Shell Mineralogy of *Helisoma* (SEM)
- xx) Rob Beverly -Marine Zooplankton (SEM)
- xxi) Chris Starnes -Reproductive Gross Anatomy of *Melongena*
- xxii) Chantelle Manier -human motor control (cadaver-based study)
- xxiii) Chantelle Manier -Parkinson's Disease
- xxiv) Dennis DeHond -2002
- xxv) Mindy Boggs -2003
- xxvi) Jennifer Vanover -2003
- xxvii) Mindy Boggs -2004
- xxviii) Theresa Meade -2004
- xxix) Heather Cole -2004
- xxx) Jamie Chandler -2004
- xxxi) Sarah Flanders -2004
- xxxii) Justin Boggs -2004
- xxxiii) Heather Cole -2005
- xxxiv) Chris Davenport -2005
- xxxv) Christian Davis -2005
- xxxvi) James Kennedy -2005, 2006
- xxxvii) Donovan Mabe -2005, 2006
- xxxviii) Tess Meade -2005
- xxxix) Amber Wade -2005, 2006

2008	Kevin Fowler (FINS Scholar) Sarah Tilson (Research Assistant) Madison Gardner (Research Apprentice II) Ashley Kincaide (Research Apprentice)
2007	Hayley Salyer (Research Apprentice) Madison Gardner (Research Apprentice) Amber Ward
2006	Amber Ward Christian Davis Hayley Salyer (Research Apprentice)
2005	Heather Cole Chris Davenport Christian Davis James Kennedy Donovan Mabe Tess Meade Amber Wade

2004	Mindy Boggs Theresa Meade Heather Cole Jamie Chandler Sarah Flanders Justin Boggs
2003	Mindy Boggs Jennifer Vanover
2002	Dennis DeHond

H) Personal Interests

SCUBA diving and instruction, swimming, stained-glass construction, photography, trap and skeet shooting, water skiing, angling, camping, archery, gourmet cooking, and auto mechanics.

I) Research Interests

- i) Regulation of molluscan (somatic and reproductive) biomineralization. Neurobiology, (neuro)endocrinology, anatomy and biochemistry of calcium movement at the whole animal, tissue and cellular levels.
- ii) Pharmacology and endocrinology of reproduction in molluscs and other invertebrates.
- iii) Zooplankton Distribution and Diversity of the Apalachicola Estuary of the Northern Gulf of Mexico.

J) Professional Societies

American Malacological Union (AMU)
 American Society of Zoologists (ASZ)
 Appalachian Regional Electron Microscopy Society (AReMS) (affiliated with the Microscopy Society of America and the Microbeam Analysis Society)
 Canadian Society of Zoologists (CSZ)
 American Physiological society (2010)

K) Professional Service

I have reviewed five undergraduate physiology and anatomy texts for W.H. Freeman and Company, West, Benjamin/Cummings and McGraw Hill Publishers.

I have reviewed journal articles submitted for publication in the *Journal of Invertebrate Reproduction and Development* as well as the *Archives of Insect Biochemistry*.

Rex Baird and I hosted the Fall 1997 meeting of the Appalachian Regional Electron Microscopy Society at Clinch Valley College in Wise, Virginia.

I was the Secretary/Treasurer for the Appalachian Regional Electron Microscopy Society.

I was the Biological Representative to the AReMS executive committee.

I am the President-Elect of the Appalachian Regional electron Microscopy Society (AReMS).

2009-2011 President of AReMS.

L) Unrefereed Publications

i) Writing of a student laboratory manual for an undergraduate course in invertebrate zoology. This manual was written while I was a teaching assistant at York University. To the best of my knowledge, it is still in use today.

ii) Preparation of a student laboratory manual emphasizing an investigative approach to studying the principles of physiology. This sixty-five page manual is used in house and is in its third edition. Portions have been adopted by York University.

iii) Writing of an instructor's manual. This manual is designed to guide the non-physiologist through the administrative, theoretical, and practical aspects of running the laboratory portion of a course dealing with the principles of physiology. This manual was prepared for use a course such as that offered by the Department of Zoology at Duke University. At Duke, this course involves up to 10 teaching assistants and 175 students. When the lab instructor's portions of this manual are ignored, it also functions as a teaching assistant's handbook. It is in its third edition.

iv) While on faculty at the University of Connecticut, I co-authored two editions of an in-house lab manual (273 pages) in *Human Physiology and Anatomy*. Approximately 450 students use this manual each year.

v) Serial publication of the "Spineless Column" in the monthly newsletter of the Triangle Dive Club, Inc. This series deals with the habitat, identification, life cycle and pertinent physiology (esp. toxins and venoms) of marine invertebrates found along the Atlantic coast of North America:

- Tunicates
- Sea Urchins
- Sand Dollars
- Holothuroidea: Sea Cucumbers
- Starfish and Brittle Stars
- Cnididae, Cnidocytes, and Nematocysts
- Coral Reefs I
- Coral Reefs II
- Coral Reefs III
- Red Tide and Paralytic Shellfish Poisoning

M) Publications

i) Books (These books are a result of a special commission by the Appalachian Math- Science Partnership Program; Summer Training Workshops for Science Teachers, and my Virginia Department of Education Grant for \$233K)

2009

Frisbie, Griffis, **Kunigelis**, Osborn, Staddon, Welter, Whittaker, and Wymer (2009). Biology for K-8Teachers: Student Science Notebook . McGraw-Hill Companies. ISBN-10: 0-07-804131-7. pp272.

Frisbie, Griffis, **Kunigelis**, Osborn, Staddon, Welter, Whittaker, and Wymer (2009). Biology for K-8Teachers: Instructor's Guide. McGraw-Hill Companies. ISBN-10: 0-07-804132-5. pp233.

II) Referred Journals

1978

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Regulation of shell growth in the pulmonate gastropod *Helisoma duryi*. Can. J. Zool. 56, 1975 - 1980.

1980

SALEUDDIN, A.S.M., S.C. KUNIGELIS, H.R. KHAN and G.M. JONES. Possible control mechanisms in mineralization in *Helisoma duryi* (Mollusca: Pulmonata). In: The Mechanisms of Biomineralization in Animals and Plants. Ed. by M. Omori and N. Watabe, Tokai University Press, Tokyo Japan. pp. 121-130.

1982

SALEUDDIN, A.S.M., S.C. KUNIGELIS, L.M. SCHOLLEN, W.R. BECKENRIDGE and S.L. MIKSYS. Studies on endocrine regulation in *Helisoma* and *Helix*. In: Molluscan Neuroendocrinology. Ed. by J. Lever and H.H. Boer, Elsevier Amsterdam, Holland. pp. 138-142.

1983

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Shell repair rates and carbonic anhydrase activity during shell repair in *Helisoma duryi* (Mollusca). Can. J. Zool. 61, 597-602.

1984

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Anesthetization of Planorbidae (Mollusca): methodology and pharmacology. *Experientia* 40, 584-585.

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Studies on the *in vitro* formation of periostracum in *Helisoma duryi*: the influence of dorsal epithelium on calcium incorporation. Can. J. Zool. 62, 1177-1180.

SALEUDDIN, A.S.M. and S.C. KUNIGELIS. Neuroendocrine control mechanisms in shell formation. *Amer. Zool.* 24, 911-916.

1985

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Studies on the *in vitro* formation of periostracum in *Helisoma duryi*: the influence of brain. J. Comp. Physiol. B 155, 177-183.

BERNHARDT, A.M., S.C. KUNIGELIS and K.M. WILBUR. Effects of phosphates on shell growth and calcium carbonate crystal formation. Aquat. Toxicol. 7, 1-13.

1986

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Reproduction in the freshwater gastropod *Helisoma*: Involvement of prostaglandins in egg production. Int. J. Invert. Rep. Develop. 10, 159-167.

1987

KUNIGELIS, S.C. and K.M. WILBUR. The effects of inorganic phosphates on trochophore larvae of the oyster, *Crassostrea virginica*. Int. J. Invert. Rep. Develop. 12, 161-172.

WILBUR, K.M. A. M. BERNHARDT and S.C. KUNIGELIS. Effects of inorganic phosphates on molluscs. In: Physiological Responses of Marine Organisms to Environmental Stresses. Ed. by J.V. Dorigan and F.L. Harrison. U.S. Department of Energy, Washington, DC. pp. 479-482.

1988

KUNIGELIS, S.C. An Investigative Approach to the Principles of Physiology. First edition of undergraduate lab manual. 65 pages.

1989

KUNIGELIS, S.C. An Investigative Approach to the Principles of Physiology: Instructor's Manual. First Edition. 250 pages.

KUNIGELIS, S.C. An Investigative approach to the Principles of Physiology. Second edition of the undergraduate lab manual. 67 pages.

1990

KUNIGELIS, S.C. An Investigative Approach to the Principles of Physiology: Instructor's Manual. Second Edition. 262 pages.

KUNIGELIS, S.C. An Investigative Approach to the Principles of Physiology. Third edition of the undergraduate lab manual. 67 pages.

1991

KUNIGELIS, S.C. An Investigative Approach to the Principles of Physiology: Instructor's Manual. Third Edition. 275 pages.

KUNIGELIS, S.C. An Investigative Approach to the Principles of Animal Physiology. Fourth edition of the undergraduate laboratory manual. 71 pages.

1993

SEVELA, C.L., C.D. SEVELA, S.C. KUNIGELIS, A.S.M. SALEUDDIN. Circadian timing of daily rhythms of hemolymph insulin-like peptide titers in *Helisoma* (Mollusca). J. Exp. Zool. 266, 221-226.

CRIVELLO, J., S.C. KUNIGELIS, K. LOMBARD. Human Physiology and Anatomy Laboratory Manual. University of Connecticut Publication.

1994

LOMBARD, K. and S.C. KUNIGELIS. Human Physiology and Anatomy Laboratory Manual: PNB 264/265. Revised Edition. The University of Connecticut Publication.

1995

SALEUDDIN, A.S.M., A. MAURELLA, S.C. KUNIGELIS, V.M. SEVALA, and H.R. KHAN. Hormonal control of biomineralization in selected invertebrates. Proceedings of the International Symposium for Invertebrate Biomineralization. L'Institut Oceanographique, Monaco. (in press)

Saleuddin, ASM, Khan, HR, Sevala, VM, Maurella, A., and. **Kunigelis, SC**. Hormonal control of biomineralization in selected invertebrates. *Can. J. Zool.* 1995.

2005

RYAN M. PELIS, SUSAN L. EDWARDS, **STAN C. KUNIGELIS**, JAMES B. CLAIBORNE, and J. LARRY RENFRO. Stimulation of renal sulfate secretion by metabolic acidosis requires Na⁺/H⁺ exchange induction and carbonic anhydrase. *Am J Physiol Renal Physiol* 289: 208-216, 2005.

N) Papers in Preparation

KUNIGELIS, S.C. Hemolymph hypercalcemia, proteinemia, and the transuterine transport of calcium in reproductively active *Helix aspersa*.

KUNIGELIS, S.C., H.R. KHAN, A.S.M. SALEUDDIN. An ultrastructural and histochemical study of the regional specialization of the uterine wall in a reproductively active land snail, *Helix aspersa*.

KUNIGELIS, S.C. and J.L. RENFRO. Transmembrane transport of calcium in egg-laying *Helix aspersa*.

O) Papers Presented (Invited*/Contributed)

1977

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. The effect of photoperiod on mean linear shell deposition rates. Annual meeting of the Canadian Society of Zoologists at Victoria, B.C.

1980

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Regulation of shell growth in *Helisoma*. Annual meeting of the Canadian Society of Zoologists at Banff Alberta.

1981

KUNIGELIS, S.C. Informal presentation of research findings to the Spineless Society of Southern Ontario.

1982

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Carbonic anhydrase titers during shell regeneration in *Helisoma duryi*. Annual meeting of the Canadian Society of Zoologists at Vancouver, B.C.

KUNIGELIS, S.C. Informal presentation of research findings to the Spineless Society of Southern Ontario.

1983

KUNIGELIS, S.C. and A.S.M. SALEUDDIN. Involvement of prostaglandins in reproduction. Annual meeting of the American Society of Zoologists at Philadelphia, PA.

SALEUDDIN, A.S.M. and S.C. KUNIGELIS*. Control of shell formation in molluscs. Annual meeting of the American Society of Zoologists at Philadelphia, PA.

1986

KUNIGELIS, S.C.* The regulation of shell growth and repair in the freshwater pulmonate snail, *Helisoma duryi*. Zoology departmental seminar at the University of Alberta.

KUNIGELIS, S.C.* (Neuro)endocrine control of shell formation and repair in the freshwater snail, *Helisoma duryi*. Biology departmental seminar the University of North Carolina at Wilmington.

1989

KUNIGELIS, S.C.* Neurohumors, neurohormones and hormones. Biology departmental seminar. William Jewell College. Liberty, Missouri.

KUNIGELIS, S.C.* Neuroendocrine control of molluscan biomineralization. Biology departmental seminar. Beloit College. Beloit, Wisconsin.

1990

KUNIGELIS, S.C. Hypercalcemia, proteinemia, and the transuterine transport of calcium in a land snail. Annual meeting of the American Malacological Union. Marine Biological Laboratory, Woods Hole, MA.

KUNIGELIS, S.C.* Biom mineralization at a snail's pace. Biology departmental seminar. The College of St. Thomas. St. Paul, Minnesota.

KUNIGELIS S.C.* Neurohormones, snail shells, and eggshell. Biology departmental seminar. Furman University. Greenville, South Carolina.

1991

KUNIGELIS, S.C.* Molluscan biom mineralization. Biology departmental seminar. Mercer University. Macon, Georgia.

KUNIGELIS, S.C.* Neurohormones, snail shell, eggshell. Biology departmental seminar. State University of New York at Fredonia. Fredonia, New York.

1992

KUNIGELIS, S.C.* Snail shell, egg shell, and hormones: The neuroendocrine regulation of molluscan biom mineralization. Biology departmental seminar. Appalachian State University. Boone, NC.

1993

KUNIGELIS, S.C.* Molluscan biom mineralization: the olde shell game. Biology departmental seminar. Southwestern University. Austin, TX.

SALEUDDIN, A.S.M., A. MAURELLA, S.C. KUNIGELIS*, V.M. SEVALA, and H.R. KHAN. Hormonal control of biom mineralization in selected invertebrates. Proceedings of the International Symposium for Invertebrate Biom mineralization. L'Institut Oceanographique, Monaco.

1994

KUNIGELIS, S.C.* The neuroendocrine regulation of molluscan biom mineralization. Biology Department's Invertebrate Neuroendocrinology Group. York University. Toronto, Ontario, Canada.

KUNIGELIS, S.C.* Biom mineralization at a snail's pace. Biology departmental seminar. University of Texas at El Paso.

1995

KISER, M. and S.C. KUNIGELIS.* The life cycle of *Hymenolepis diminuta* as seen through the SEM. AReMS Spring Meeting in Greenville, South Carolina.

1997

KUNIGELIS, S.C.* SEM: A Clinician's Dream. Annual Spring Meeting of the Virginia Society for Clinical Laboratory Science and Virginia State Society of American Medical Technologists. Roanoke, VA.

KUNIGELIS, S.C. Snails, Eggs, and Microscopy. AReMS Spring Meeting in Asheville, NC.

KUNIGELIS, S.C. Comparative Microscopy of Snail Egg Development. AReMS Fall Meeting at Clinch Valley College in Wise, VA.

2000

KUNIGELIS, S.C. Shell Repair at a Snail's Pace. AReMS Spring Meeting in Raleigh, NC. Mar. 30-31, 2000.

KUNIGELIS, S.C. and P. YUN. The Costs of Feeding the World's Future Population: Economic Reality or Fantasy. Pan-Pacific Conference XVII. May 31 - June 2, 2000.

2001-2007

* Papers marked with an asterisk are invited presentations.

KUNIGELIS, S.C. Annual update on biomineralization. AReMS Annual Meeting at Appalachian State University, Boone, NC.

2006

Ward, A., SC Kunigelis, C. Davis. Zooplankton of the Apalachicola Estuary. Poster session. Appalachian Regional electron Microscopy Society. Boone, NC

2007

Salyer, H., SC Kunigelis, C. Davis. Early embryonic development of the ragged sea hare, *Bursatella*. Poster session. Appalachian Regional electron Microscopy Society. Boone, NC

2008

Kincade, A., M. Gardner, and S.C. Kunigelis. SPAZ Plankton: An SEM Survey of Apalachicola Estuary. Poster session. Appalachian Regional electron Microscopy Society. Boone, NC

Fowler, K., and S.C. Kunigelis. Early Development of the Zebrafish (*Danio rerio*): A Freeze-Fracture Study of Embryos. Poster session. Appalachian Regional electron Microscopy Society. Boone, NC

2009

Kunigelis, S.C., Kunigelis, H.A., and S. Hiff Veliger Larvae of the Crown Conch, *Melongena Corona*: Velum and Protoconch. Poster session. Appalachian Regional electron Microscopy Society. Boone, NC