

JOHN IMPAGLIAZZO

Department of Computer Science
Hofstra University
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John.Impagliazzo@Hofstra.edu

Précis

Current Position: Professor, Computer Science, Hofstra University
Highest Degree: Ph.D., Mathematics, Adelphi University, 1983
Avocational Activities: Champion of computing history, computing accreditation, computing education

Current Activities:

Professional: International Federation for Information Processing (IFIP)
Chair, WG 9.7, History of Computing
Organization of computing history conferences <www.CompHist.org>
Computing Accreditation and Education – Advisor and Participant
ABET Team Chair and Program Evaluator since 1987
Member, CSAB Board of Directors
Trainer, CSAB Training of program evaluators
Estonia: Team chair for thirteen university programs – undergraduate and graduate
United Arab Emirates: Team chair and member of eight accreditation teams
Consultant/advisor: Domestic: multiple public and private universities
External: New Zealand, U.A.E., Qatar, Estonia, Sweden, Denmark, Chile
Association for Computing Machinery (ACM)
Editor-in-Chief, *inroads*, ACM SIGCSE Bulletin
Education Board, Member
SIGCSE Executive Committee
Association of Technology Professionals (AITP) – Long Island
Board member – Secretary and Education Co-Chair
Wiley Interscience:
Encyclopedia of Computer Science and Engineering; Associate Editor, Computing Milieu
Membership Activities
IEEE History Committee; Treasurer
Computer Engineering Curriculum Committee
Computing Curriculum Overview Committee
ACM, IEEE, IEEE Computer Society, AITP, New York Academy of Sciences, others
Major Grants: National Science Foundation
Computing History Resource Adaptation (CHRAD), PI, 2002 – 2006.
Computing and Information Technology Interactive Digital Educational Library (CITIDEL),
Co-PI, 2001 – 2004.
Women and Computing, Distribution of Special Issue, PI, 2002 – 2003.
Research: Computing History
Digital Libraries
Computing Education
Physics and Modeling
Community: Nassau Cerebral Palsy Association
Vice President and Director
Chair: Bylaw Committee
Other Committee Membership: Executive, Human Resources, Computerization

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Curriculum Vitae

EDUCATION

Ph.D. Mathematics, Adelphi University, Garden City, New York, 1983.
M.S. Mathematics, Adelphi University, Garden City, New York, 1978.
M.S. Engineering Analysis, State University of New York at Stony Brook, Stony Brook, New York, 1966.
B.S. Physics and Mathematics (Dual Major), St. John's University, Jamaica, New York, 1964.
A.A.S. Electrical Technology, State University of New York at Farmingdale, Farmingdale, New York, 1961.

PROFESSIONAL EXPERIENCE

Teaching

Hofstra University, Hempstead, New York, Hofstra College of Liberal Arts and Sciences.

Professor, Computer Science, 1993 September 1 – present.
Associate Professor, Computer Science, 1985 September 1 – 1993 August 31.
Department Chair, 1987 January – 1993 August.
Associate Professor (Adjunct), Computer Science, 1984 – 1985.

Uppsala University, Uppsala, Sweden, Division of Information Technology.

Visiting Research Professor, Department of Computer Systems, Spring 1999.

State University of New York

Nassau Community College, Garden City, New York.

Professor (Adjunct), Mathematics and Computer Processing, 1967 – present.
Full-time Assistant Professor, 1983 – 1985.

SUNY at Farmingdale, Farmingdale, New York

Professor, Mathematics, 1966 – 1983.
Coordinating team in computer science, 1979 – 1983.

Adelphi University, Garden City, New York, School of Arts and Sciences.

Adjunct Professor, Mathematics, 1978 – 1985.

Baldwin High School, Baldwin, New York.

Instructor (Adjunct), Mathematics, Spring 1981.

Brentwood High School, Brentwood, New York.

Instructor (Adjunct), Electronics, 1962 – 1964.

Technical

Consultant, various government agencies, public and private universities, foreign governments, 1990 – present.

Consultant, New Jersey Department of Higher Education, Trenton, New Jersey, 1989 – 1992.

Computer Consultant, Economic Opportunity Council of Suffolk County, Patchogue, New York, 1985 – 1988.

Computer Research Engineer, National Science Foundation Research Scholar, Grumman Aerospace Corporation, Bethpage, New York, Summer 1981.

Research Engineer Assistant, State University of New York, Stony Brook, New York, Summer 1965, Summer 1966.

Assistant Engineer, Grumman Aircraft Engineering Corp., Bethpage, New York, Summer 1964.

Electrical Engineer Trainee, Ampere Electronic Corporation, Hicksville, New York, Summer 1963.

Technical Assistant in Electronics, State University of New York, Farmingdale, New York, Summer 1961.

Supervisory

Chair, Department of Computer Science, Hofstra University, Hempstead, New York, 1987 – 1993.

President, Aspen Contracting Corporation, Long Beach, New York, 1968 – 1974.

Director of Educational Writing, Alpha Tech, Inc., Greenlawn, New York, 1969 – 1970.

PUBLICATIONS

Computing-Related Papers and Reports

Plagiarism: A Case Against Improper Reuse and Professional Publications

[with Don Gotterbarn and Keith Miller] Proceedings, 36th ASEE/IEEE Frontiers in Education Conference, San Diego, California, 28-31 October 2006. (Accepted)

The Economic Works of John von Neumann

Proceedings of the 100th Birthday Celebration of John von Neumann, Humboldt University of Berlin, Berlin, Germany, 1-2 December 2003. (2006 expected)

Using History in Computing Courses

Proceedings, 35th ASEE/IEEE Frontiers in Education Conference, Indianapolis, Indiana, 19-22 October 2005.

History: A Vehicle for Teaching Introductory Computing Courses

Paper. Proceedings, IFIP 2005 World Computer Conference in Education (WCCE), Cape Town, South Africa, 4-7 July 2005.

Overview and Perspectives on Electronic Communications

Paper. Proceedings, IEEE International Scientific Conference “110th Anniversary of Radio Invention (SPb Con’05), St. Petersburg, Russia. 18-20 May 2005.

History in the Study of Computer Architecture

Paper contribution, Number 22, *Using History to Teach Computer Science and Related Disciplines*, A. Akera and W. Aspray, Editors. Computing Research Association (CRA), 2004, pp. 232-238.

Development of the Model Curriculum for Computer Engineering

Paper, (with D. Soldan, V. Nelson, A. McGettrick, P. Srimani, M. Theys, and J. Hughes), Frontiers in Education Conference, Savannah, Georgia, 20-23 October 2004.

Using Computing History to Enhance Teaching

Paper (with J. Lee) Proceedings of History of Computing in Education – IFIP World Computer Conference, Toulouse, France, 22-27 August 2004, Kluwer Publishers, 2004.

Enhancing Distance Learning Using Quality Digital Libraries and CITIDEL

Paper and Discussion (with J. Lee, L. Cassel, et al), Proceedings of Quality Education at a Distance – IFIP Distance Learning Conference Deakin University, Geelong, Australia, 3-6 February 2003, Kluwer Publishers, October 2003.

Professional Accreditation of Information Systems Programs

(with John Gorgone) Communications of the Association for Information Systems, Volume 9, Article 3, August 2002.

A Journey in the Mind of Galois

(An expository on the thinking of Évariste Galois on the development of Galois theory and its relation to the solvability of polynomials), Proceedings from the Robert Bumcrot Symposium, 2002.

Graph Theory, Overview

Encyclopedia of Mathematics Education, L. Grinstein & S. Lipsey, Eds., pp. 301-305, RoutledgeFalmer, New York, 2001.

Computer Science

Encyclopedia of Mathematics Education, L. Grinstein & S. Lipsey, Eds., pp. 131-134, RoutledgeFalmer, New York, 2001.

Distributed Expertise for Teaching Computer Organization and Architecture

(with Cassel et al.) Report of the ITiCSE'00 Working Group on Computer organization, Innovation and Technology in Computer Science Education, University of Helsinki, Helsinki, Finland, 9–15 July 2000.

Current Dynamics in the Computing Profession

Keynote Address, Proceedings, Seminario Internacional de Ingenieria, Universidad Piloto de Colombia, Hotel Tequendama, Bogota, Colombia, 18–20 August 1999.

Integrating Professionalism and Workplace Issues into the Computing and Information Technology Curriculum

(with Granger, et al) Report of the ITiCSE'99 Working Group on Professionalism, Innovation and Technology in Computer Science Education, College of Economics, Krakow, Poland, 27 June – 1 July 1999.

History in the Computing Curriculum

IFIP (TC3-WG9.7 Task Group) Report. Task Group Chair. IEEE Annals of the History of Computing, Vol 21, No 1, pp. 1-15, January 1999.

Historical Perspectives on Computer Science Education

(with Goldweber, et al). Workgroup Proceedings, Integrating Technology in Computer Science Education. ACM SIGCSE publication, September 1997.

Accreditation in the Computing Profession

(Principal author, with Cannon, Coulter, Frailey, Jones). Proceedings of the 1997 Conference on Systemics, Cybernetics, and Informatics, SCI'97, July 1997.

Computing Curricula for Associate Degree Programs

Member, Steering Committee for Reports on *Computer Support Services, Computing and Engineering Technology, Computing for Information Systems, Computing Sciences, Computing for Other Disciplines*. Principal author: *Computing and Engineering Technology*. Association for Computing Machinery, 1993.

Low-Pass Data Filters

Prepared for Danmarks Statistik of the Kingdom of Denmark, Copenhagen, 1982.

Profile Analysis of Defense Mapping Agency (DMA) Data

Grumman Research Department, Grumman Aerospace Corporation, 1981.

Multimode Propagation on Radiating Traveling-wave Structures with Glide-Symmetric Excitation

(with R. Kieburz) IEEE Transactions on Antennas and Propagation, January 1970.

Books and Chapters

Integrating Historical and Societal Contexts in the Computing Curriculum

Book Chapter (with J. Lee and D. Cassidy), IFIP Book titled *Critical Perspectives on the Information Society*, Springer Publications, 2005.

History of Nordic Computing

Book Editor (with Janis Bubenko and Arne Sølvyberg), Proceedings of the First Conference on the History of Nordic Computing, 15-18 June 2003, Springer Publishers, 2005.

History of Computing in Education

Book Editor (with J. Lee), Proceedings from the conference on the History of Computing in Education at the IFIP World Computing Congress, Toulouse, France, Kluwer Academic Publishers, 2004.

Computer Science: A Breadth-First Approach with C

(with P. Nagin), John Wiley and Sons Publishers, New York, New York, 1995.

Computer Science: A Breadth-First Approach with Pascal

(with P. Nagin), John Wiley and Sons Publishers, New York, New York, 1995.

Computer Science: A Breadth-First Approach with C – Instructor's Manual

(with P. Nagin, A. Botwinick), John Wiley and Sons Publishers, New York, New York, 1995.

Computer Science: A Breadth-First Approach with Pascal – Instructor's Manual
(with P. Nagin, C. Janik, K. Klee), John Wiley and Sons Publishers, New York, New York, 1995.

The Legacy of John von Neumann
Co-editor, Proceedings of Symposia in Pure Mathematics, Volume 50, American Mathematical Society, 1990.

Stable Population Theory and Applications
Biomathematics Series, Applied Mathematical Ecology, Volume 18, (One Chapter) Springer-Verlag, 1989.

Deterministic Aspects of Mathematical Demography: An Investigation of Stable Population Theory including an Analysis of the Population Statistics of Denmark Biomathematics series, Volume 13, Springer-Verlag, Heidelberg, 1985.

The Two-Year College Teacher of Mathematics
(with S.W. Ayers, P. Lindstrom, J. Smith) American Mathematical Association of Two-Year Colleges, 1985.

Mathematics: Back to Basics
(with E. Lalor, S. Barbasso, W. Martin), Mathematical Alternatives, New York, 1978.

Precalculus: A Functional Approach with Applications
(with S. Barbasso) Harcourt Brace Jovanovich, New York, 1977.

Precalculus: A Functional Approach with Applications - Instructor's Manual
(with S. Barbasso) Harcourt Brace Jovanovich, New York, 1977.

Basic Mathematics with Numerical Techniques
(with S. Barbasso) State University of New York at Farmingdale, 1975.

Dissertation and Thesis

Deterministic Models in Mathematical Demography
Doctoral Dissertation, Adelphi University. University Microfilms, Ann Arbor, Michigan, 1983.

Dispersion Relation of a Coaxially Fed Uniformly Periodic Dipole Array with Glide Symmetry
Masters Thesis, State University of New York at Stony Brook, Stony Brook, New York, 1966.

INVITED LECTURES AND PRESENTATIONS

Using History in Computing Courses
Proceedings, 35th ASEE/IEEE Frontiers in Education Conference, Indianapolis, Indiana, 19-22 October 2005. (Pending)

History: A Vehicle for Teaching Introductory Computing Courses
Lecture, IFIP 2005 World Computer Conference in Education (WCCE), Cape Town, South Africa, 4-7 July 2005.

Computing Curricula Overview Project
Poster presentation, 10th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Monte da Caparica, Portugal, 27-29 June 2005.

Use a Little History
Poster presentation, 10th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Monte da Caparica, Portugal, 27-29 June 2005.

Computing History Resource Adaptation
Poster presentation, IEEE International Scientific Conference “110th Anniversary of Radio Invention (SPb Con’05), St. Petersburg, Russia. 18-20 May 2005.

Computing Ethics: Now or Never
Lecture on Computer Fraud and Security. Rose-Hulman Institute, Terre Haute, Indiana, 22 April 2005.

History: The Guiding Light of Computing

Lecture on Computing History. Rose-Hulman Institute, Terre Haute, Indiana, 22 April 2005.

Enhancing CS0 Courses Using History

Work in Progress, (with J. Lee), Frontiers in Education Conference, Boulder, Savannah, Georgia, 20-23 October 2004.

A Report on the Model Curriculum for Computer Engineering

Panel presentation, (with D. Soldan, V. Nelson, A. McGettrick, P. Srimani, and M. Theys), Frontiers in Education Conference, Boulder, Savannah, Georgia, 20-23 October 2004.

Using Computing History to Enhance Teaching

Paper presentation (with J. Lee) History of Computing in Education – IFIP World Computer Conference, Toulouse, France, 22-27 August 2004.

Digital Libraries: State-of-the-art and Prospects

Seminar on education, University of Petrozavodsk, Petrozavodsk, Karelia, Russia; 12 August 2004.

Modern Computing Curricula

Seminar on education, University of Petrozavodsk, Petrozavodsk, Karelia, Russia; 12 August 2004.

Using History to Enhance Computing Courses

Poster Presentation, Innovation and Technology in Computer Science Education (ITiCSE) Conference, 9th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Leeds UK, 28-30 June 2004.

Using History to Teach Computing

Birds-of-a-Feather, ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Norfolk, Virginia, 3-7 March 2004.

IEEE-CS/ACM Computing Curricula: Computer Engineering and Software Engineering Volumes

Special Session, Organizer and moderator (with E. Hughes, R. LeBlanc, A. McGettrick, P. Srimani) ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Norfolk, Virginia, 3-7 March 2004.

Computing Curricula 2004: The Overview Report

Special Session, (with R. Shackelford, et al.), ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Norfolk, Virginia, 3-7 March 2004.

Using the NSF Digital Library to Enhance Computing

Workshop (with M. Pérez-Quinones, L. Cassel, E. Fox), ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Norfolk, Virginia, 3-7 March 2004.

Using History to Teach Computing

Birds-of-a-Feather, ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Norfolk, Virginia, 3-7 March 2004.

John von Neumann and Economics

Presentation at the 100th Birthday Celebration of John von Neumann, Humboldt University of Berlin, Berlin, Germany, 1-2 December 2003.

Using the NSF Digital Library to Enhance your Teaching

Work-in-Progress Presentation and Chair (with J. Lee, M. Perez-Quinones), Frontiers in Education Conference (FIE 2003), Boulder, Colorado, 5-8 November 2003.

Using History to Teach Computing

Workshop Presentation and Chair (with T. Bergin, J. Lee, M. Williams), Frontiers in Education Conference, Boulder, Colorado, 5-8 November 2003.

Computer Engineering Curriculum Development

Poster Presentation, Innovation and Technology in Computer Science Education (ITiCSE) Conference, University of Macedonia, Thessaloniki, Greece, 29 June – 1 July 2003.

Using the NSDL and CITIDEL to Enhance Your Teaching

Poster Presentation (with D. Knox and L. Cassel), Innovation and Technology in Computer Science Education (ITiCSE) Conference, University of Macedonia, Thessaloniki, Greece, 29 June – 1 July 2003.

Using and Education Oriented Digital Library to Organize and Present Classes in Computing

Demo Presentation (with D. Knox, L. Cassel, et al), Innovation and Technology in Computer Science Education (ITiCSE) Conference, University of Macedonia, Thessaloniki, Greece, 29 June – 1 July 2003.

Using the NSDL and CITIDEL to Enhance Teaching

Poster Presentation (with D. Knox and L. Cassel), Innovation and Technology in Computer Science Education (ITiCSE) Conference, University of Macedonia, Thessaloniki, Greece, 29 June – 1 July 2003.

Computer Engineering Computing Curricula

Special Session Presentation and Chair (with P. Srimari, R. Sloan, A. McGettrick), ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Reno Nevada, 20–22 February 2003.

Report on the NSF Major Educational Funding Initiative for a NSDL with Special Emphasis on the Computing Education Component

Special Session Presentation (with E. Fox, J. Prey, L. Cassel, D. Knox), ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Reno Nevada, 20–22 February 2003.

New Curriculum in Computer Engineering

Birds-of-a-Feather Presentation and Chair (with R. Sloan, A. McGettrick), ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Reno Nevada, 20–22 February 2003.

Digital Libraries: Quality Resources for Distance Education

Panel Presentation and Chair (with J. Lee, S. McKnight, N. McLaurin-Smith), Quality Education at a Distance – IFIP Distance Learning Conference Deakin University, Geelong, Australia, 3–6 February 2003.

Computing Education and Digital Libraries

Work-in-Progress Presentation and Chair (with J. Lee), Frontiers in Education Conference (FIE 2002), Boston, Massachusetts, 7–9 November 2002.

ICT Education and Digital Libraries

Poster Presentation (with J. Lee), IFIP World Computer Conference, Montreal, Canada, 25–30 August 2002

ICT and Digital Libraries

Poster Presentation, Innovation and Technology in Computer Science Education (ITiCSE) Conference, Aarhus Universitet, Aarhus, Denmark, 24–26 June 2002.

Integrating the History of Systems Software in the Computing Curriculum

Poster Presentation, Innovation and Technology in Computer Science Education (ITiCSE) Conference, Aarhus Universitet, Aarhus, Denmark, 24–26 June 2002.

Using CITIDEL as a Portal for IT Education

Panel Presentation and Chair (with J. Lee and L. Cassel), Informing Sciences Conference, Cork, Ireland 18–20 June 2002.

Using History in the Computer Architecture Course

Workshop Presentation, Computing Research Association, Charles Babbage Institute, Minneapolis, Minnesota, 27 April 2002.

Using CITIDEL as a Portal for CS Education

Panel Presentation and Chair (with L. Cassel and D. Knox), CCSCNE Conference, 12–13 April 2002.

Studying the History of System Software

Birds-of-a-Feather Presentation and Chair, ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Covington, Kentucky, 28 February 2002.

Computing History of Information Systems

Panel Presentation and Chair (with Elias Awad, JAN Lee, Joyce Currie Little, and George Kasper), Information Systems Education Conference (ISECON) 2001, Hyatt Cincinnati Hotel, Cincinnati, Ohio, 1–4 November 2001.

Is Program Accreditation Useful or Needed in Computing?

Panel Presentation and Chair (with R. Cannon, N. Coulter, D. Frailey, and L. Jones), Frontiers in Education Conference (FIE 2001), Nugget Casino Hotel, Reno, Nevada 10–13 October 2001.

Computing History of the Nordic Countries

Panel Presentation (with Peter Bollerslev, Jan Wibe, Erling Schmidt, and Leo Højsholt-Poulsen), IFIP World Conference on Computers in Education 2001 (WCCE'01) Bella Center, Copenhagen, Denmark, 29 July – 3 August 2001.

Real and Virtual Computing Museums

Poster Presentation, Innovation and Technology in Computer Science Education, University of Kent at Canterbury, Canterbury, England, 25–27 June 2001.

Computing History Museums

Birds-of-a-Feather, ACM Special Interest Group for Computer Science Education (SIGCSE) Symposium, Charlotte, North Carolina, 22 March 2001.

Perspectives on Professionalism in Computing

Panel Presentation and Chair (with K. Bowyer, G. Engel, D. Gotterbarn, T. Greening, J.A.N. Lee), Frontiers in Education Conference (FIE 2000), Kansas City, Missouri, 18–21 October 2000.

Society Involvement in the ABET/CSAB Integration

Panel Presentation and Chair (with R. Cannon, S. Conry, G. Engel, M. Liu), Frontiers in Education Conference (FIE 2000), Kansas City, Missouri, 18–21 October 2000.

Computing Accreditation

Seminar Presentation, International Computing Perspectives, University of Petrozavodsk, Karelia, Russia, 19 July 2000.

Computing History: A Russian Perspective

Seminar Presentation, International Computing Perspectives, University of Petrozavodsk, Karelia, Russia, 19 July 2000.

Computing as a Profession

Seminar Presentation, International Computing Perspectives, University of Petrozavodsk, Karelia, Russia, 19 July 2000.

CAVE - A Simulation of Computer Theory

Poster Presentation (with M. Tashbook), ITiCSE Conference, Helsinki, Finland, 11–13 July 2000.

Using History in the Computing Curriculum

Seminar Presentation, Uppsala University, Uppsala Sweden, 29 May 2000.

History in the Computing Curriculum

Birds-of-a-Feather Presentation and Chair, SIGCSE'00 Symposium, Austin, Texas, March 2000.

The Life and Work of Marshall H. Stone

Panel moderator and presenter, The New York Academy of Sciences, New York, New York, 2 December 1999.

Societal Perspectives on Computing Accreditation

Panel Presentation and Chair, (with R. Cannon, S. Conry, G. Engel, W. King) Frontiers in Education Conference 1999, San Juan, Puerto Rico, 4–7 November 1999.

Teaching Very Large Instruction Word Architectures

Poster Presentation, Innovation and Technology in Computer Science Education (ITiCSE), College of Economics, Krakow, Poland, 27 June – 1 July 1999.

Computing History

Seminar Presentation, University of Copenhagen, Copenhagen, Denmark, 10 May 1999.

Computing Accreditation: Purpose and Impact

Seminar Presentation, University of Copenhagen, Copenhagen, Denmark, 7 May 1999.

Computing History

Seminar Presentation, Uppsala University, Uppsala, Sweden, 4 May 1999.

The Maturation of Computing: Problems and Concerns, Hopes and Promises

Keynote Presentation, III Conferencia Latinoamericana, Barquisimeto Hilton, Barquisimeto, Venezuela, 14–16 April 1999.

Computing Accreditation

Conference Presentation (with P. LaMalva), III Conferencia Latinoamericana, Barquisimeto Hilton, Barquisimeto, Venezuela, 14–16 April 1999.

Reasons for Accreditation

Seminar Presentation, Uppsala University, Uppsala, Sweden, March 1999.

Teaching History in Computing

Interactive Session (co-presenter), Frontiers in Education Conference (FIE'98), Tempe Mission Palms Hotel, Tempe, Arizona, 4–7 November 1998.

History in the Computing Curriculum

Poster Presentation (co-presenter), Sixth Annual Conference on the Teaching of Computing and the Third Annual Conference on Integrating Technology into Computer Science Education (ITICSE'98), Dublin City University, Dublin, Ireland, 18–21 August 1998.

The Future of Computing

Commencement Address, Manakau Institute of Technology, Auckland New Zealand, 20 July 1998.

Current Dynamics in Computing Accreditation

Keynote Address, 11th Annual Conference, National Advisory Committee on Computing Qualifications (NACCQ), Waipuna International Hotel, Auckland New Zealand, 8–11 July 1998.

A Perspective on Programming Languages

Industrial Meeting, New Zealand Computer Society, Auckland, New Zealand, 7 July 1998.

The Year 2000 Problem - An Academic Perspective

Committee on Services and Operations, Nassau County Legislature, Mineola, New York, 15 June 1998.

History in the Computing Curriculum

Birds-of-a-Feather Session (with G. Davies), SIGCSE'98 Symposium, Atlanta, Georgia, 26–28 February 1998.

Refereed Papers, The Digital Library, and the Future of the SIGCSE Bulletin

Panel Presentation and Chair (with Aiken, Mandelbaum, Miller). SIGCSE'98 Symposium, Atlanta, Georgia, 26–28 February 1998.

History in the Computing Curriculum

Panel Presentation and Chair (with G. Davies, J. Lee, M. Williams). Frontiers in Education Conference – FIE'97, Pittsburgh, Pennsylvania, 5–8 November 1997.

Integrating Technology into Computer Science Education: Report from Uppsala

Panelist. Thirteenth Annual Eastern Small College Computing Conference. Richard Stockton College of New Jersey. Pomona, New Jersey, 24–25 October 1997.

Accreditation in the Computing Profession

Panel chair and presenter (with Cannon and Coulter). SCI'97 Conference on Systemics, Cybernetics, and Informatics, Caracas, Venezuela, 8–10 July 1997.

Training and Participation in International Computer Science and Engineering Accreditation

IEEE Computer Society, Workshop on International Computer Science and Engineering Accreditation, Salt Lake City, Utah, 9–11 November 1996.

Dits and Dozens: Multiplication and Division Using Machines

Annual Meeting, Dozenal Society of America, Garden City, New York, 19 October 1996.

International Accreditation: A Global Necessity

(with G. Davies, S. Gill, L. Cassel). World Conference on Computers in Education, WCCE'95, Birmingham, UK, 24–28 July 1995.

- Teaching the Breadth of Computing in the First Courses*
(with A. Tucker and K. Barker). National Educational Computing Conference, Baltimore, Maryland, 17–19 June 1995.
- Paradigms in Teaching Computer Science*
National Science Foundation, Workshop on Curriculum and Technology, Colorado Springs, Colorado, 20 January 1995.
- Summary: ACM Report on Computing and Engineering Technology*
National Science Foundation Faculty Enhancement Grant, Native American Workshop, Cheyenne, Wyoming, 2–6 June 1994.
- Linking Computer Science Concepts within a First-Year Discrete Mathematics Course*
National Council of Teachers of Mathematics, Seventy-second Annual Meeting, Indianapolis, Indiana, 13–16 April 1994.
- An Industry Perspective on Computer Science Accreditation*
Panel Chair, Association for Computing Machinery, Computer Science Conference '94, Phoenix, Arizona, 10 March 1994.
- Recommendations of the ACM Two-Year College Computing Curricula Task Force*
Workshop, SIGCSE Conference of the ACM, Indianapolis, Indiana, 20 February 1993.
- Two-Year College Curricula*
National Educational Computing Conference, NECC'92, Dallas, Texas, 15–17 June 1992.
- An Update from the ACM Computing Curricula Task Force*
Twenty-seventh Annual Conference, New York State Mathematics Association of Two-Year Colleges, Ellenville, New York, 3–5 April 1992.
- New Accreditation Criteria and Curriculum Models for Computing Programs*
Seventeenth Annual Conference, American Mathematical Association of Two-Year Colleges, Seattle, Washington, 7–10 November 1991.
- Report from the ACM Two-Year College Curriculum Task Force*
National Educational Computing Conference, NECC'91, Phoenix, Arizona, 16–20 June 1991.
- Discrete Mathematics as a First-Year College Course Can Generate New Insights*
Sixty-ninth Annual Meeting, National Council of Teachers of Mathematics, New Orleans, Louisiana, 17–20 April 1991.
- Building Bridges: Team Teaching Interdisciplinary Courses*
Meeting the Transfer Challenge: Future Directions, Sponsored by the American Council on Education and the Ford Foundation, LaGuardia Community College, 13 November 1990.
- Report on the ACM Two-Year College Computing Curriculum Task Force*
Information Systems Education Conference, ISECON'90, Chicago, Illinois, 13–14 October 1990.
- Issues in Two-Year College Computer Education*
National Education Computer Conference, Annual Meeting, Nashville, Tennessee, 23–26 June 1990.
- A Modern Definition of Computer Science*
Forty-ninth Annual Meeting, Metropolitan Section of the Mathematical Association of America, New York City Technical College, Brooklyn, New York, 6 May 1990.
- New Changes in Computer Science*
Twenty-fifth Annual Conference, New York State Mathematical Association of Two-Year Colleges, Binghamton, New York, 20–22 April 1990.
- Population Models in Discrete Mathematics*
American Mathematical Association of Two-Year Colleges, Fifteenth Annual Conference, Baltimore, Maryland, 26–29 October 1989.
- Music, Math and Dozens*
Annual Meeting, Dozenal Society of America, Garden City, New York, 12 October 1989.
- A Population Model for Discrete Mathematics*
Nassau Science Explorations, Hofstra University, 23 May 1989.

Calculators in the Classroom

Metropolitan New York Section of the Mathematical Association of America, 6 May 1989.

Applying Modeling in Discrete Mathematics

Third Annual Long Island Mathematics Conference, SUNY College at Old Westbury, Old Westbury, New York, 17 March 1989.

Computer Science Accreditation in Two-Year Colleges

Panel Chair, Association for Computing Machinery, Computer Science Conference '89, Louisville, Kentucky, 22 February 1989.

Population Dynamics and Discrete Mathematics

American Mathematical Association of Two-Year Colleges, Fourteenth Annual Conference, Calgary, Alberta, 27–31 October 1988.

Computer Science Programs at Two-Year Colleges

American Mathematical Association of Two-Year Colleges, Fourteenth Annual Conference, Calgary, Alberta, 27–31 October 1988.

Accreditation in Computer Science at Two-Year Colleges

Panel Chair, Association for Computing Machinery, Computer Science Conference '88, Atlanta, Georgia, 24 February 1988.

Accreditation in Computer Science

American Mathematical Association of Two-Year Colleges, Thirteenth Annual Conference, Kansas City, Missouri, 29 October – 1 November 1987.

Accreditation in Computer Science

New York State Mathematical Association of Two-Year Colleges, Twentieth Annual Conference, Syracuse, New York, 22–24 April 1987.

Mathematical Demography and Stable Population Theory

International Centre for Theoretical Physics, World Conference - "Second Autumn Course on Mathematical Ecology", Miramare, Trieste, Italy, 10 November – 12 December 1986.

Curricula in Computer Science

Mathematical Association of America, Metropolitan Section, "Mathematics 1986," Suffolk Community College, Selden, New York, 16 November 1985.

Computer Science: Fact or Fiction

American Mathematical Association of Two-Year Colleges, Eleventh Annual Convention, Hyatt Regency Hotel, Memphis, Tennessee, 31 October – 3 November 1985.

What is Computer Science?

Nassau County Association of Mathematics Supervisors, Conference on "Computers in the Classroom", Herricks Community Center, 17 May 1985.

Introduction to Computer Literacy

Technology '85, New Dimensions in Special Education, Board of Cooperative Educational Services of Nassau County, Massapequa, New York, 1–2 May 1985.

Computer Science: Fact or Fiction?

New York State Mathematics Association of Two-Year Colleges, Twentieth Annual Conference, Rochester Hilton, Rochester, New York, 26–28 April 1985.

Computer Science: What is it?

American Mathematical Association of Two-Year Colleges, Tenth Annual Conference, Vista Hotel, New York, New York, 25–28 October 1984.

Writing Computer Programs and Technical Manuscripts

Conference entitled, "Improve Your Writing Skills", State University of New York, Nassau Community College, Garden City, New York, 12 May 1984.

Convergence of Functions Using Computer Graphics

New York State Mathematical Association of Two-Year Colleges, Nineteenth Annual Conference, Holiday Hills, Pawling, New York, 27–29 April 1984.

Do Irrationals Really Exist?

Conference on Microcomputers and Basic Skills, City University of New York, Vista Hotel, New York, New York, 14–15 April 1984.

Thomas Malthus and Human Survival

A Student Symposium in Mathematics, Nassau County Association of Mathematics Supervisors, C.W. Post College, Greenvale, New York, 10 January 1984.

Convergence via Computer Graphics

American Mathematical Association of Two-Year Colleges, Ninth Annual Convention, Orlando, Florida, 10–13 November 1983.

Discrete and Continuous Models in Demography

The Mathematical Association of America, Metropolitan New York Section, Adelphi University, Garden City, New York, 5 May 1979.

Mathematical Demography

New York State Mathematical Association of Two-Year Colleges, Region IV Meeting, Suffolk Community College, Selden, New York, 1 December 1979.

How I Teach Mathematics

The Mathematical Association of America, Metropolitan New York Section, Sarah Lawrence College, Bronxville, New York, 24 April 1977.

Remediation and Mathematics

New York State Mathematical Association of Two-Year Colleges, Region IV Conference, Nassau Community College, Garden City, New York, October, 1976.

PROFESSIONAL ACTIVITIES AND MEMBERSHIP

ACM Special Interest Group on Computer Science Education (SIGCSE)

Editor-in-Chief, *inroads*, the SIGCSE Bulletin, 1997 – present.

Executive Committee Member, 1997 – present.

Institute for Electrical and Electronics Engineers (IEEE)

Computer History Committee: Member, 2002 – present

Chair, Strategic Planning Subcommittee, 2003-2004.

Treasurer, 2004 – present.

Association for Computing Machinery (ACM)

Participant: Education Board, 1985 – present.

Computing Curriculum Overview Committee, 2002 – present.

Chair: Accreditation Committee, 1991 – 2002.

Member: Two-Year College Education Committee (Education Board), 1988 – 1995.

Chair: Two-Year College Computing Curricula Task Force, 1988 – 1991.

SIGCUE Advisor: Computers in Middle Schools, 1987 – 1988.

Pre-college Computer Committee, 1985 – 1989.

Institute for Electrical and Electronics Engineers - Computer Society (IEEE/CS)

Computer Engineering Curriculum Committee, 2001 – 2004.

ABET, Inc.

Team Chair for Computing Accreditation Commission (CAC), 2001 – present.

CSAB, Inc.

Member, CSAB Program Evaluator Program Criteria Committee, 2001 – present.
Trainer, CSAB Training of program evaluators, 2003 – present.

International Federation of Information Processing (IFIP)

Chair: Working Group 9.7 (WG 9.7), History of Computing, 2001 – present.
Chair: Joint Task Group on History in the Computing Curriculum, 1996 – 1999.

Association for Information Technology Professionals (AITP)

Co-Chair: Education Committee, Long Island Section, 2003 – present.

Wiley Interscience

Encyclopedia of Computer Science and Engineering, Associate Editor, Computing Milieu, 2002 – present.

External Educational and Accreditation Activities

Estonia: Team chair for thirteen university computing programs, 1999 – present.
United Arab Emirates: Member and team chair of four accreditation teams, 2001 – present.
Domestic Advisor: Several public and private universities, 1988 – present.
Foreign Advisor: New Zealand, U.A.E., Estonia, Sweden, Denmark, Chile 1998 – present.

Computing Sciences Accreditation Board (CSAB)

Computer Science Accreditation Commission (CSAC)
Team Chair and Commissioner, 1991 – 2001.
Program Evaluator, 1987 – 2001.
Task Force on Distance Education, member, 1998 – 1999.

Mathematical Association of America (MAA)

Co-Editor: (with S. Whitton) Metropolitan New York Section Newsletter, 1997 – 1999.
Member: Committee on Computing and Mathematics, 1988 – 1989.
Member: Committee on Two-Year Colleges, 1985 – 1988.

Society for Industrial and Applied Mathematics (SIAM), 1985 – 2003.

New York Academy of Sciences (NYAS), 1985 – present.

Dozenal Society of America (DSA), 1981 to present.

Director, 1987 – present.
Chair of the Board, 1985 – 1987.
Secretary, 1984 – 1985.

Nassau Cerebral Palsy Association

Vice President, 1996 – present.
Director: Board of Directors, 1977 – present.
Chair: Bylaw Committee, 1991 – present.
Member: Computerization Committee, Chair 1993 to 1998, member 1993 – present.
Member: Human Resources Committee, 1982 – present.
Member and volunteer: Long Island Festival of Trees, 1990 – 1998.
Commendation from Nassau County Executive, 1992.
Member: Budget Committee, 1979 – 1981.
Member: Legislative Committee, 1977 – 1982.; Telethon Supervisor, 1977 – 1986.

New York State Mathematical Association of Two-Year Colleges (NYSMATYC)

Officer: Member-at-Large, 1984 – 1989.
Member: Scholarship Committee, Awards Committee
Wrote and Published:

Newsletter No. 32, Fall 1988
Newsletter No. 31, Spring 1988

Newsletter No. 28, Fall 1986
Newsletter No. 27, Spring 1986

Newsletter No. 24, Fall 1984
Newsletter No. 23, Spring 1984

American Philatelic Society (APS)
Ålands Frimärkssamlarförening (ÅLFF)

Scandinavian Collectors Club (SCC)
Danmarks Filatelist Forbund (DFF)

AWARDS

- National Science Foundation. Co-Principal Investigator with Lillian Cassel. Partial travel award to attend the World Conference on Computers in Education (WCCE 2005), Cape Town, South Africa, \$37,500 total, 3–7 July 2005.
- National Science Foundation. Principal Investigator, Computing History Resources Adaptation (CHRAD) grant, [NSF Grant Number 0126818]. Hofstra lead institution, using history to teach the Overview of Computer Science (Csc 5) course. \$74,995 total, 1 July 2002 – 31 May 2006.
- National Science Foundation. Principal Investigator, Dissemination of the Inroads (SIGCSE Bulletin) Special Issue on “Women and Computing” grant, [NSF Grant Number 0226221]. Publication distribution to 5000 schoolteachers. Hofstra lead institution, \$35,880 total, 1 June 2002 – 31 May 2003.
- National Science Foundation. Senior Scientist, Computing and Information Technology Interactive Digital Educational Library (CITIDEL) project, [NSF Grant Number 0121679]. Virginia Tech lead institution, with Hofstra, Villanova, Penn State, and College of New Jersey. Computing education portal for NSF digital library (NSDL), \$114,667 of \$800,000 total, 15 September 2001 – 31 August 2004.
- National Science Foundation. Award to attend workshop Java Power Tools (JPT), Northeastern University, Boston, Massachusetts, 6–8 August 2002.
- National Science Foundation. Award to attend workshop Developing On/off-Line Computer Ethics (DOLCE), Colorado School of Mines, Golden, Colorado, 29 May – 4 June 2001.
- National Science Foundation. Partial travel grant to attend the World Conference on Computers in Education (WCCE 2001), Copenhagen, Denmark, 29 July – 3 August 2001.
- National Science Foundation and the Federation on Computing in the United States (FOCUS). Partial travel grant to attend the International Federation of Information Processing (IFIP) World Congress on Computing (WCC’98), Vienna, Austria and Budapest, Hungary, 31 August – 4 September 1998.
- National Science Foundation and the Federation on Computing in the United States (FOCUS). Partial travel grant to attend the International Federation of Information Processing (IFIP) World Congress on Computing (WCC’96), Canberra, Australia, 2–6 September 1996.
- Outstanding Contributions to NYSMATYC, New York State Mathematical Association of Two-Year Colleges, 1990.
- National Science Foundation. Partial travel grant to participate at the World Conference on Computers in Education, Sydney, Australia, 1990.
- Faculty Development Grant, Hofstra University, 1990.
- Association for Computing Machinery, SIG Board Grant, Development of Computing Curricula Guidelines, Task Force Chair, February 1990.
- Faculty Research Grant, Center for Scholarly Research and Academic Excellence, Hofstra University, 1986.
- National Science Foundation, Research Fellow, Grumman Aerospace Corporation, 1981.
- National Science Foundation, Traineeship, State University of New York at Stony Brook, 1964 – 1966.
- Roger Bacon Scientific Honor Society, St. John's University, Jamaica, New York, 1963 – 1964.

OTHER ACTIVITIES

Referee/Reviewer

IEEE Annals of the History of Computing, 2002 – present.

ACM / IEEE-CS Computer Science Curriculum Task Force, *Computing Curricula 2001*, 1998 – 2001.

ACM Journal on Educational Resources in Computing (JERIC), 2000 – present.

National Science Foundation. Division of Undergraduate Education, Washington, D.C., 2000.

National Science Foundation. Division of Undergraduate Education, Washington, D.C., 1997 – 1998.

Princeton University Press, Princeton, New Jersey, 1994 – 1997.

ACM / IEEE-CS Computer Science Curriculum Task Force, *Computing Curricula 1991*, 1988 – 1991.

Journal of Mathematical Biology, Springer-Verlag, Berlin, Heidelberg, Simon A. Levin, editor, 1984 – 1987.

College Mathematics Journal, Mathematics Association of America, Warren Page, editor, 1982 – 1988, 1996 – 1999.

Long Island Math Fair, 1974 – 1986.

Greater Metropolitan New York Math Fair, 1985.

Organizer

History of Computing in Latin America

Conference sponsored by IFIP Working Group 9.7 and TC3, History of Computing in Latin America (John Impagliazzo, WG Chair), at IFIP World Computer Congress, Santiago, Chile, 20–25 August 2006. (Pending)

History of Russian Computing

Conference sponsored by IFIP Working Group 9.7, History of Computing (John Impagliazzo, WG Chair), Petrozavodsk, Russia, 3–7 July, 2006. (Pending)

History of Computing in Education

Conference sponsored by IFIP Working Group 9.7 and TC3, History of Computing (John Impagliazzo, Chair), at IFIP World Computer Congress, Toulouse, France, August 2004.

History of Nordic Computing

Conference sponsored by IFIP Working Group 9.7, History of Computing (John Impagliazzo, Chair), Norwegian Technical University, Trondheim, Norway, 15–17 June 2003.

The Life and Work of Marshall H. Stone

The New York Academy of Sciences, New York, New York, 2 December 1999.

Women and Computing Symposium, (with Valerie Barr) Hofstra University, 7 October 1998.

IEEE Computer Society Pre-College Workshop: *Computing as an Engine of Change*, Hofstra University, 24 October 1997.

Special Interest Group for Computer Science Education (SIGCSE), 27th Technical Symposium, Symposium Chair, Philadelphia, Pennsylvania, 15–17 February 1996.

International Conference on *The Legacy of John von Neumann*, in association with the American Mathematical Society and the Society for Industrial and Applied Mathematics, Hofstra University, 30 May – 4 June 1988.

Invited Participation

Nassau Science Explorations - Hofstra University

Invited speaker, variety of topics, each year, 1989 – 1998.

Shaping the Future Conference

Advisory Board, Borough of Manhattan Community College of CUNY, 1997 – 1998.

Integrating Technology into Computer Science Education

Workshop organizer. Uppsala University, Uppsala, Sweden, 1–5 June 1997.

IEEE Computer Society, Workshop on Accreditation in the Computing Sciences, Salt Lake City, Utah, 9–11 November 1996.

State University of New York at Farmingdale, Computing Advisory Board, 1995 – 1998.

Nassau Community College, Professional Advisory Board, Department of Mathematics and Computer Processing, 1993 – 1997.

National Science Foundation, "Workshop on the Role of Professional Societies in Two-Year College Science, Mathematics, and Engineering Education," Washington, D.C., 29–30 October 1992.

Association for Computing Machinery, ACM Conference on Critical Issues, Arlington, Virginia, 6–7 November 1990.

Ford Foundation Transfer Project, LaGuardia Community College, Planning Sessions, September 1989.

Digital Equipment Corporation, DEC WORLD '88, "Managing Change: An Executive Perspective on the Enterprise-Wide Impact of Computer Technology," with ABC Newscaster Ted Koppel, Waldorf-Astoria, 14 September 1988.

New York Academy of Sciences, One-hundred-seventeenth Annual Meeting, World Trade Center, New York, New York, 7 December 1987.

WORKS IN PROGRESS

Software: Modeling Laser Resonators

Articles: Possible publications on laser physics (expected)
 The Phenomenon of Gibbs
 Aspects of Category Theory
 Discrete Insights of Laplace Transforms

Books: *JavaScript by Example*, (with K. Pillaipakkammatt), completed draft, used in Overview of Computer Science class.
 Computer Science: A Breadth-First Approach with C++, (with P. Nagin) Final draft completed.
 Impecunia (Literary - 1999 draft)

MISCELLANEOUS

History of Computing in Germany and the Netherlands
Conference sponsored by IFIP Working Group 9.7 History of Computing (John Impagliazzo, WG Chair), Amsterdam, Netherlands, 2–4 November 2006. (Pending)

International Conference on Information and Communication Technologies for Education (ED-ICT 2000)
Member, Program Committee, Vienna University of Technology, Vienna, Austria, 6-9 December 2000.

Nassau County Department of Health
Division of Epidemiology. Developed liaison and cooperative research efforts between the county and Hofstra, Summer 1992 – 1994.

New York Academy of Sciences
Science Research Training Program; Promoted the use of student intern sponsored by the Academy, Summer 1992.