

C. W. GEAR

Ph.D. Mathematics	University of Illinois U-C	1960
M.S. Mathematics	University of Illinois U-C	1957
M.A. Mathematics	Cambridge	1960
B.A. Mathematics	Cambridge	1956

EMPLOYMENT

2013-	Senior Scientist, Chem & Bio Eng., Princeton University (Courtesy position)
2010-2013	Senior Scientist, Chem & Bio Eng., Princeton University (Part time)
2004-2010	Senior Scientist, Chem Eng., Princeton University (Courtesy position)
2002-2004	Technical Staff Member, Chem Eng., Princeton University (24%t time)
2000-	President Emeritus, NEC Research Institute
1992-2000	President, NEC Research Institute, Princeton, NJ
1990-1992	Vice President, Computer Science Research Division
1990 -	Professor Emeritus, University of Illinois at Urbana-Champaign
1985-1990	Head, Department of Computer Science, and Professor, Computer Science, Applied Mathematics, and Electrical and Computer Engineering, University of Illinois at Urbana-Champaign
1969-1990	Professor, Computer Science and Applied Mathematics
1965-1969	Associate Professor, Computer Science and Applied Mathematics
1962-1965	Assistant Professor, Computer Science and Applied Mathematics
1960-1962	Engineer, IBM British Laboratories, Hursley, England

AWARDS

2002	Dept. of Army: Outstanding Civilian Service Medal
2001	University of Illinois Alumni Achievement Award
1996	Elected to the American Academy of Arts and Sciences
1991	Elected to the National Academy of Engineering
1987	Honorary Doctorate, Royal Institute of Technology, Stockholm
1980	Halliburton Educational Foundation Award of Excellence
1979	ACM SIGNUM George E. Forsythe Memorial Award
1956	Johnson Foundation Fellow
1956	Fulbright Fellow

PROFESSIONAL SOCIETIES & ACTIVITIES

Memberships: NAE, IEEE (Fellow), Am. Acad. Arts & Sciences (Fellow), SIAM (Fellow, past President). Former memberships: Am. Assoc. Adv. Science (Fellow), ACM (Fellow), British Computer Society (Fellow).

Society Offices:

AAAS Chair, Section T, 2005
CICIAM (Committee for International Congresses on Industrial and Applied Mathematics),
 Chair, 1991-1995
ICIAM (International Congress on Industrial and Applied Mathematics):
 1988-1991, President
SIAM (Society for Industrial and Applied Mathematics) President: 1987-1988
SIAM Vice President for Publications, 1990-1992
SIAM Council: 1980-1989
ACM Turing Award Selection Committee: 1989-1994
ACM Council Member: 1975-1977
ACM SIG/SIC Board: 1974-1976, 1978-1980
SIGNUM Special Interest Group on Numerical Analysis (SIGNUM) of ACM: Chairman
 1973-1975, Board of Directors: 1967-1970, 1972-1973, 1980-1983

AREAS OF RESEARCH

Numerical integration of differential equations
Automatic problem solving systems
Simulation and network analysis
Computer Graphics & Vision

PATENTS

US Patent 3,246,315, ``Read Only Memory," Apr 1966
US Patent 5,579,401, ``Feature Grouping in Moving Bodies in an Image." Nov 1996

SUPERVISION OF STUDENT RESEARCH

M.S. Degrees Supervised: 34
Ph.D. Degrees Supervised: 22

EDITORSHIPS OF JOURNALS

1985-1989 Managing Editor, SIAM J. on Scientific & Stat. Comp.
1983-1990 Transactions of Society for Computer Simulation
1982-present Journal Computational and Applied Mathematics
1979-1984 SIAM Journal on Scientific and Statistical Computing
1978-1984 ACM Transactions on Mathematical Software
1973-1978 Advisory Board, Computers and Graphics
1968-1971 SIAM Journal on Numerical Analysis
1967-1969 Newsletter of ACM Special Interest Group on Graphics

PROFESSIONAL SERVICE

NRC ad hoc Committee on Best Practices in Peer Review, 2011 –2013
Member, NRC LAB (Laboratories Assessment Board) , 2009 -
NRC standing committee: Joint Improvised Explosive Device Defeat Organization 2006 -2011
Member of ALAG (Army Laboratories Assessment Group), 2004 – 2011
NRC NIST Assessment Board: Vice Chair, Info Technology Panel, 2003 - 2005
NRC Committee on Army Science and Technology for Homeland Defense 2002-2004
NRC Army Research Laboratory Technical Advisory Board: 1995-2002. Chair 2000-2002
NRC Board of Mathematical Sciences: 1997-2000
NRC Committee on Future Environments for the National Institute of Standards and Technology, 2001
Computing Research Association Board of Directors: 1988 - 2000
Univ. of Illinois Beckman Center Advisory Committee: 1994-2004
Princeton University CS Department External Advisory Committee: 1996-2002
NSF Advisory Committee for Computer Science Infrastructure: 1989-1992
Board of Governors of the Institute for Mathematics and its Applications: 1987-1989, 2000-2002
Advisory Committee for Mathematics and Computer Science Air Force Office of Scientific Research: 1986-1987
NSF Advisory Committee for Computer Research: 1985-1988
Board of Trustees, Universities Space Research Association: 1983-1989; Vice Chairman, 1984-1985; Chairman, 1985-1986
National Research Council Advisory Panel for the National Bureau of Standards on Scientific Computing: 1981-1983
Numerical Computation Panel for COSERS Report
Institute for Computer Applications in Science and Engineering (ICASE) and Research Institute for Applications of Computer Science (RIACS): 1978-1984, Scientific Council; 1982-1984, Chairman

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