

CURRICULUM VITAE

S. Anders Hedberg, Ph.D.

I. Personal data:

Place of Birth: Stockholm, Sweden
Marital Status: Married; Ceile E. Hedberg, DVM, Ph. D.; two children
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II. Professional experience

i. Administrative, managerial and research experience:

1. President, Hedberg Consulting, LLC – Established new consulting enterprise with emphasis on international STEM (science, technology, engineering, and mathematics) Workforce Development through collaboration between private sector, education and government. The firm is approved for US Government contract assignments.

Objectives are to:

- Improve STEM workforce talent development through K-16 formal and informal education
- Increase R&D workplace readiness among students preparing to enter the workforce
- Strengthen worldwide job competitiveness for graduating high-school students
- Assist the R&D industry to attract talent through education

This is accomplished by:

- Engineering creative solutions for effective change.
- Engaging leadership in government, industry, and advocacy organizations.
- Brokering active collaboration between all sectors of the economy.
- Building capacity for continuing improvement.

2. Director, Bristol-Myers Squibb Corporate Philanthropy and the Bristol-Myers Squibb Foundation - Responsible for providing leadership in strategic global philanthropy to meet Bristol-Myers Squibb Corporate Social Responsibility (CSR) objectives:

- Leadership in development and implementation of global corporate philanthropy and CSR programs with focus on education and health. Chairmanship of BMS CSR Council.
- National leadership in development and implementation of novel high school curriculum for workforce preparation based on pharmaceutical R&D sequence.
- Strategic planning and execution of company-wide global oversight, tracking and reporting of charitable giving to BMS Management Committee.
- Corporate representation for the Bristol-Myers Squibb Company in regional, national and international education, health and research philanthropy.
- Staff and budgetary management and administration.

3. Director, Bristol-Myers Squibb Center for Science Education - Responsible for organizational and individual skill and talent development to optimize organizational effectiveness within the R&D organization, and facilitate operational integration with other BMS business units:

- Leadership, development and implementation of a novel section under the BMS Human Resources division, dedicated to the professional training and development of scientists, project team effectiveness, and inter-disciplinary communication under the Bristol-Myers Squibb Research & Development (BMSR&D), world-wide.
- Leadership in program needs assessment, execution and evaluation.
- Full list of CSE programs, developed during this tenure will be furnished upon request.

4. Research Scientist in Exploratory Drug Discovery Research - Responsible for the discovery of novel molecular mechanisms, suitable for pharmacological manipulation for therapeutic advantage, establishing Proof of Principle, and preparation of concept for development:

- Leadership and innovation in development and implementation (strategic planning, project implementation and evaluation) of biomedical and medicinal intervention concepts in basic research and applied drug discovery. Creative problem solving, study design, critical thinking, objective data analysis and concise reporting

- Leadership and supervision of the Section of Molecular Pharmacology Research (Staff management, project coordination and communication), comprised of four research teams, each including up to eight Ph.D./M.S.-level scientists operating in an environment of global collaboration and communication.
- Extensive publication, communication and reporting on progress in discovery research on novel pharmacological interventions in hypertension, heart failure, myocardial ischemia and thrombosis.

ii. Teaching experience:

1979-1981	Lecturer Department of Pharmacology, Sch. Med. Univ. of Uppsala, Sweden
1978-1981	Lecturer Department of Pharmacology, Sch. Med. Univ. of Göteborg, Sweden
1977-1978	Assistant Lecturer Department of Pharmacology, Sch. Med. Univ. of Göteborg, Sweden
1975-1977	Assistant Lecturer Department of Physiology, Sch. Med. Univ. of Göteborg, Sweden

III. Education:

1980	Ph. D., Pharmacology, Department of Pharmacology, School of Medicine, University of Göteborg, Sweden
1975	M. Sc., Physiology, Department of Physiology, School of Medicine University of Göteborg, Sweden
1973	B. Sc., Mathematics, Chemistry, Biology University of Göteborg, Sweden
1970	Officer School, Swedish Army Reserves
1969	Military Service
1968	Accounting, Civil Law Law School, University of Stockholm, Sweden

IV. Positions:

2009 – present	President Hedberg Consulting, LLC
1998 - 2008	Director Bristol-Myers Squibb Foundation Bristol-Myers Squibb Corporate Philanthropy Princeton, NJ
1991-1998	Director, Center for Science Education Bristol-Myers Squibb Pharmaceutical Research Institute/ Human Resources Bristol-Myers Squibb Princeton, NJ
1987-1991	Section Head/Research Group Leader, Molecular Pharmacology Research Department of Pharmacology, Bristol-Myers Squibb Research & Development (BMS R&D) Princeton, NJ
1986-1987	Senior Research Investigator Department of Pharmacology, Squibb Institute for Medical Research Princeton, NJ
1981-1983	Postdoctoral Research Fellow * Department of Pharmacology, School of Medicine, University of Pennsylvania, Philadelphia, PA
1980-1983	Research Group Leader Department of Pharmacology, Astra-Zeneca, AB Hässle Cardiovascular Research Laboratories, Mölndal, Sweden
1978-1979	Research Associate/Fellow * Department of Pharmacology, School of Medicine, University of Colorado, Denver, CO
1978	Visiting Scientist * Department of Pharmacology, School of Medicine Klinikum der Johann Wolfgang Goethe Universität Frankfurt am Main, FRG
1975-1979	Research Associate Department of Pharmacology, Astra-Zeneca, AB Hässle Cardiovascular Research Laboratories, Mölndal, Sweden

* Position held while on Leave of Absence from Astra-Zeneca, AB Hässle

Cardiovascular Research Laboratories

V. Publications:

Publications from more than fifteen years of research on biochemical-physiological mechanisms and pharmacological intervention in hypertension, heart failure, myocardial ischemia and thrombosis, with special emphasis on receptor-coupled signal transduction (58 peer-reviewed publications, 7 book chapters, 38 scientific presentation abstracts, 96 internal corporate research reports, 9 Pre-Clinical Lead Profiles (PLP), 6 Investigational New Drug Applications (IND), 2 Drug Candidate Monographs*).

Full literature references of all publications and reports will be furnished upon request.

VI. Awards:

1997	Conference Board's Best in Class Award for Excellence in Education
1995	President's Award for Team Work and Productivity BMS Pharmaceutical Research Institute
1988	Quality/Productivity Award for Achievement and Innovation, E. R. Squibb & Sons
1981	Postdoctoral Fellowship Department of Pharmacology, University of Pennsylvania
1978	AstraZeneca Research Foundation Young Investigators Award

VII. Board Assignments:

- Board of Trustees, The New Grange School, Trenton, NJ. 2009 – present
- International Coalition, National Science Resources Center (**Chair**), Washington, DC, 2005 – present.
- NAEP (National Assessment of Educational Progress) 2009 Planning Committee, Science Education, Council of Chief State School Officers, Washington, DC, 2004 – 2005.

- TIMSS (Third International Mathematics and Science Study)/PISA (Program for International Student Assessment) Expert Panel, 2003 .
- Business/Education Council, The Conference Board. New York, NY, 2003 – 2007.
- Board of Directors, Mercer County Academy for Math and Science, New Jersey, 2002 – 2003.
- Board of Directors, R&D Council of New Jersey, 2001 – present.
- Board of Directors, Biological Sciences Curriculum Study, Colorado Springs, 2000 – 2006.
- Board of Directors, Museum of Contemporary Science [MoCS] (**Chair**), Trenton, NJ, 1999 – 2008
- National Advisory Board, National Science Resources Center (**Chair**), Washington, DC, 1998 – 2006.
- Math & Science Business Advisory Committee, National Alliance of Business (**Chair**), Washington, DC, 1998 – 2002.
- Business Policy Council, National Alliance of Business, Washington, DC, 1998 – 2002.
- Science Advisory Board, Rider University (**Chair**), Lawrenceville, NJ, 1998 – 2008
- Board of Directors, Mercer County Community College Foundation, Plainsboro, NJ, 1998 – present.
- Science Advisory Board, Teach For America, Washington, DC, and New York, NY, 1997 – 2000.
- Leadership Team for Elementary Science Reform, Lawrence Township Public Schools, Lawrenceville, NJ. 1995 - 2000.
- Board of Directors, Lawrence Legacies, Lawrence Township Public Schools. 1995 - 1998.
- Building Bridges to the Future Business-Education Partnership of Mercer County. (Co-founder and **Chair**), 1992 - 1996.
- Board of Directors, Business/Education Alliance of the Upper Freehold Regional School District. 1991 - 1998.

- Executive Committee, Organization Development Professional Practice Area (OD PPA), American Society for Training and Development (ASTD). 1991 - 1997.

VIII. Invited Keynote Speeches (Limited to CSR and STEM Education)

1. Royal Swedish Academy of Sciences: **Conference on Inquiry-Centered Science Education K-6**, Stockholm, Sweden, April 1997
2. Swedish Science Education Reform Leadership Consortium Conference: **Community Leadership in Science Education**, Linköping, Sweden, November 1997.
Title: *"Who Waters the Tree of Knowledge (Vem vattnar kunskapens träd?)"*
3. National Science Board Hearing: **Puerto Rico Statewide Systemic Initiative Conference**, University of Puerto Rico, Rio Piedras, PR, October 6-8, 1998.
4. First **Corporate Conference on Science Education Reform in Puerto Rico**, Bankers' Club, San Juan, PR, December 2, 1998.
5. Closing Baquet: **National Science Resources Center's Strategic Planning Institute**, Smithsonian Institution (The Castle), July 29, 1999.
Title: *"Revolution!"*
6. Middle School Teacher's Institute: **Implementation of Exemplary Science Curriculum**, National Science Resources Center – Science & Technology for Children, Smithsonian Institution (The Castle)
7. **Southeastern LASER Regional Partnership, Community Stakeholder Workshop**, Tennessee State University, October 11, 1999.
8. American Society for Materials Centers' **Next Step [In Systemic Science Education Reform] Institute**, Nashville, TN, October 13, 1999.
9. US-Mexico Foundation for Science: **Corporate Conference on Science Education in Mexico**, Xalapa, Vera Cruz, Mexico, December 1, 1999.
10. Opening Banquet: **Orange County Regional NSRC/LASER Strategic Planning Institute & Celebration of Arnold O. Beckman's 100th Birthday**, Nixon Library and Birthplace, Yorba Linda, CA, May 1, 2000.
11. Chemical Heritage Foundation's **National Science Education Conference**, Philadelphia, PA, July 20-23, 2000.
Title: *"Science Education Should Be Everybody's Business"*
12. National Science Foundation's **Conference on Math and Science Curriculum Development and Instruction**, American Geological Institute/Smithsonian Institution (The Castle), February 2, 2001.

Title: *“Getting the Job Done – A Corporate Perspective”*

13. Inter-Academies Panel - US-Mexico Foundation for Science: **International Working Conference on Research Related to Science Education**, Monterrey, Mexico, September 11, 2001.

Title: *“Industry and Education – Perfect Together!”*

14. **Council of Independent Colleges’ Presidents’ Meeting**, New York, NY, March 19, 2002.

15. Inter-Academies Panel – US Mexico Foundation for Science: **Second Monterrey Conference on Science Education**, Monterrey, Mexico, May 6, 2003.

Title: *“How the Education System Can Build Cognitive Abilities and Scientific Attitudes Conducive to Technological Innovations in the Business World”*

16. Education Policy Center of Michigan State University: **Why Content Matters – Breaking the Link Between Poverty and Achievement**, Washington, DC, June 2, 2003.

Title: *“Content as it relates to K-8 professional development”*

17. Pediatric Nutrition Conference: **Update on Pediatric Nutrition**, Beijing, China, July 13, 14, 2004.

Title: *“Corporate Philanthropy in Support of Health Care”*

18. Mexico-US Foundation for Science: **Conference on Teacher Preparation**, Mexico City, Mexico, December 1, 2004.

Title: *“Building a National Alliance to Advance Science Literacy”*

19. Montclair State University National Satellite Broadcast **“Rainforest Connection,”** Smithsonian Tropical Research Institute, Barro Colorado Island, Panama, January, 2005, 2006, 2007.

Title: *“Snake Venoms and Other Natural Products in Pharmaceutical Research”*

20. National Science Teachers Association, **2007 NSTA National Convention**, St. Louis, MI, March 29, 2007.

Title: *“For Coherency in Your Classroom and Professional Development – Consider the CONNECT-ED Model!”*

21. NSRC: **National Symposium for Scientists and Engineers**, National Science Resources Center and Los Alamos National Laboratory, Santa Fe, NM, April 11, 2007.

Title: *“K-12 Science Education, The Talent Pipeline and Science-Based Industry”*

22. Royal Swedish Academy of Science and Linköping University: **Tenth Anniversary Celebration of NTA** (Naturvetenskap och Teknik för Alla/Natural Sciences and Technology for All), Linköping, Sweden, October 17, 2007.

Title: *“Corporate Social Responsibility and Science Education”*

23. NSRC: **2007 National Leadership Development Symposium**, Washington, DC, October 31, 2007.
Title: *“K-12 Science Education and Workforce Readiness – A Novel Approach from Science-based Industry”*
- 24: US-Mexico Foundation for Science: **International Conference on Science and Well-Being**, Monterrey, Mexico, November 7-8, 2007.
Title: *“K-12 Science Education, Workforce Readiness and Science-Based Industry – A Discussion about Opportunities”*
- 25: BIO 2008: **Biotechnology Institute**, San Diego, June 16, 2008.
Title: *“High School Education and Workforce Preparation”*
- 26: European POLLEN Conference: **New Milestones for Inquiry-Based Science Education in Primary School in Europe**, Berlin, Germany, May 28-29, 2009.
Title: *“The Important Roles of Business and Industry in Inquiry-based Science Education”*