#### **CURRICULUM VITAE**

Name: Balchen, Jens G. Title: Professor Emeritus

Born: April 20, 1926 in Kristiansand S, Norway

Department of Engineering Cybernetics Norwegian University of Science and Technology N 7034 TRONDHEIM, NORWAY Affiliation:

#### University Degrees:

- The Norwegian Institute of Technology, Trondheim, Norway, (NTH) Dept. of Electrical Engineering, Sivilingeniør, 1949
   Yale University, USA, Master of Engineering, 1951
- Docteur Honoris Causa, Université de Liege, Belgium, 1987

#### Positions held:

- Teaching and research assistant, NTH, 1949-50.
- Norw. State Scholarship for studies in USA, 1950-51.
  University Scholarship, NTH, 1951-54.
  Associate prof. of Control Engineering, 1954-62.

- Professor of Control Engineering, NTH, 1962-96.
  Head of Division of Automatic Control, (later Engineering Cybernetics) 1954->

- Chairman of Faculty of Electrical Eng. 1964-1966

  Editor of Norwegian Research Bulletin "Modeling, Identification and Control"

  Director of Program for Robotic Research at the Norwegian Institute of Technology 1987-96.

## Academic affiliations abroad:

- Postgraduate studies at Yale University, USA, 1950-51
- Visiting professor, University of California, Berkeley, 1959-60.
  Visiting professor, University of California, Santa Barbara 1967-68, 1975-76, 1981-82 and 1985-86.
- Docteur Honoris Causa, Université de Liege, Belgium, April 1987.
  Guest lecturer at universities in Europe, USA, Soviet, Japan and Israel

## Affiliations with international organizations:

- Member of IFAC (International Federation of Automatic Control) Advisory Committee 1958-59.
- Member of IFAC Executive Council 1959-63. Chairman of IFAC Subcommittee on Optimal and Adaptive Systems, 1963-66
- Vice-chairman IFAC Application Committee 1966-69
- Member of IFAC Application Committee 1969-89. Member of IFAC Theory Committe 1969-93
- Member of IFAC Policy Committee 1980-87 Member of International Program Committees (~25) of Symposia and Conferences
- Fellow IEEE 1995
- Senior Member of ISA
- Member of Nato Science Committee Special Panel on Sensory Robotics. 1984-89
- Chairman of International Program Committee for IFAC symposium on Automation and Data Processing in Aquaqulture, Trondheim, 1986. Chairman of International Program Committee for IFAC DYCORD+'92 Symposium, USA, 1992.

## Awards:

- IEEE Centennial Medal Award 1984.
- Docteur Honoris Causa 1987, Universite de Liege, Belgium.
   The Royal Norwegian Council for Scientific and Industrial Research Annual Award 1990.
   Norwegian Society of Automatic Control Annual Award 1991.
   Commandor of the Royal Norwegian Order of St. Olav, 1996.

## Affiliation with Norwegian societies:

- · Elected member of the Norwegian Academy of Technical Sciences, (NTVA) 1995
- Elected member of the Royal Norwegian Society of Sciences and Humanities (DKNVS) 1978
   Member of the National Board of Research in Automation and Data Processing 1953-76.
- Member of Executive Board of the Norwegian Productivity Institute 1981-86
- · Member of the Board of IBM Research Center in Norway

# Principal Investigator on Research Programs

- · Development and Design of General Analog Computer 1952-60
- Control Theory Research 1955-80
- Computer Controlled Machine Tools 1955-61
  Computer Controlled Ship Operation 1961-69
  Computer Controlled Machine Tools 1964-68
  Computer Controlled Machine Tools 1964-68
- Partly Un-manned Production Processes 1968-72

- Modeling and Control of Fish Behavior 1969-80 Modeling and Simulation of Ocean Bio Systems 1974-83
- New Techniques in Aquaculture, 1979 Robotics Research, 1987-96
- Intelligent Cybernetic Systems Research, 1991-96
- Modelbased Teleoperation (MOBATEL), 1991-96

## Doctoral Theses Supervisor

· Doctor of Engineering (dr.ing.) theses at the NTH and NTNU 1960-97 59 completed and 2 in progress