

Niels C. LIND

Distinguished Professor Emeritus
University of Waterloo

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Born March 10, 1930.

EDUCATION

M.Sc., Technical University of Denmark, 1953 (Civil and Structural Engineering)
Ph.D., University of Illinois, 1959 (Theoretical and Applied Mechanics)

PROFESSIONAL MEMBERSHIP

Fellow of: Royal Society of Canada, American Academy of Mechanics, Canadian Institute for Risk Assessment
Member of: Canadian Standards Association, International Association for Civil Engineering Reliability and Risk Analysis
International Association for Structural Safety and Reliability
International Association for Clean Technology
Institute for Risk Research
Foreign Member of: Danish Center for Applied Mathematics and Mechanics

TECHNICAL AND ADMINISTRATIVE COMMITTEE MEMBERSHIPS

- Canadian Environmental Assessment Agency (CEAA):
Scientific Review Group for High-Level Nuclear Waste Disposal Concept (1991-96).
- Royal Society of Canada and Canadian Academy of Engineering:
Joint Committee on Health and Safety (Chairman 1990-95)
- International Association for Clean Technology (IACT):
IACT Canada National Committee (Chairman 1987-)
- International Federation for Information Processing (IFIP):
TC-7 Working Group on Reliability and Optimization of Structural Systems (1985-)
- International Conference on Applications of Statistics and Probability in Soil and Structural Engineering (1967-);
Chairman 1983-87
- Atomic Energy Control Board: Advisory Committee on Nuclear Safety (1981-95):
Task Group on Risk Perception (1982-95); Chairman
Task Group on Negligible Dose (1983-95)
Task Group on Mini Reactors (1986-95)
Task Group on Basic Safety Objectives
- Canadian General Standards Board: Committee on Limit States Design of Glass (1982-)
- Canadian Standards Association (CSA):
CSA Technical Committee on Reliability, Availability and Maintainability (1989-)
CSA Standard for Risk Assessment Committee (Chairman 1986-)
CSA National Advisory Committee for International Standards Organization Committee
TC98 (Structural Design)(1970-)
CSA National Advisory Committee for ISO Committee TC167 (Steel and Aluminium Structures)(1977-)
- ASME Structural Reliability Committee, Risk Analysis Division (1990-)
- International Conference on Wind Engineering (ICWE):
National Scientific Committee member (1990-1991)

- International Association for Civil Engineering Reliability and Risk Analysis (CERRA); President (1987-91)
CERRA International Scientific Committee (Chairman 1987-91)
- Canadian Council of Professional Engineers, Canadian Accreditation Board,
Accreditation Committee, University of Sherbrooke, Quebec (1980)
CSA S136 Committee on Light Gage Steel Structural Members (1961-84); (Chairman 1963-78)
CSA S16 Committee (Alternate) (1965-70);
CSA S136 Commentary Committee (1974-75);
- American Academy of Mechanics: Board of Directors (1968-1973) (President 1971-72)
- American Society of Civil Engineers (ASCE):
ASCE-EMD Advisory Board. (1974-80) (Chairman 1976-77);
ASCE-EMD Executive Committee (1968-75)
(Chairman of the Engineering Mechanics Division 1973-74);
ASCE-EMD Program Committee (1972-78) (Chairman 1973-74);
ASCE Committee on Probabilistic Methods (Eng. Mech. Div.) (1970-78);
ASCE-EMD Committee on Inelastic Behavior (1976-81);
ASCE Plasticity Committee (Eng. Mech. Division) (1967-75);
ASCE-EMD Elasticity Committee (1977-81);
ASCE Stability Committee (Eng. Mech. Division); (1973-81)
ASCE-STD Committee on Design and Analysis (1972-75);
ASCE Newmark Award Committee (1975-78);
ASCE-EMD Task Committee on Systems and Operations Research (1971-78);
ASCE-STD Committee on Methods of Analysis (1971-79) (Chairman 1972-75);
ASCE-STD Committee on Safety of Buildings (1975-);
ASCE-STD Task Committee on Structural Safety (1965-74);
ASCE Structural Engineering Coordinating Committee (1971-73);
ASCE Structural Division Committee on Mathematical Methods (1971-74);
ASCE-STD Committee on Reliability of Offshore Structures (1975-77);
- Canadian Society for Civil Engineers: Committee on Limit States Design (1976-);
- IABSE: Task Committee on Probabilistic Procedures in Structural and Construction Engineering (Vice Chair) (1974-80);
IABSE-ASCE Joint Committee on Planning and Design of Tall Buildings (Structural Safety Committee) (1971-);
- Column Research Council: Task Committee on Arch Stability (1968-73);
- Associate Committee on the National Building Code of Canada:
Standing Committee on Structural Design (1974-78);
Task Group on Limit States Design (1973-80; Chairman 1973-77);
- American Iron and Steel Institute: Advisory Group on the Specification for the Design of Cold-Formed Steel Structural Members (1973-78);
- OECD Committee on Mathematics in Higher Education (1964-68);
- CEB-CECM-CIB-FIP-IABSE-RILEM Joint Committee on Structural Safety (1973-);
Subcommittee for First-Order Reliability Concepts (1975-);
- NRC Grant Selection Committee for Civil Engineering (1974-77);
- CSA-NBC Joint Committee on Limit States Design, (1973-80);
- Heritage Workshop Advisory Committee (U.S.) Forest Products Lab. (1979-80);
- IUTAM Symposium on Probabilistic Methods in the Mechanics of Solids and Structures,
Waloddi Weibull in Memoriam, Stockholm, 1984 (Co-chairman).

ACADEMIC APPOINTMENTS AND EMPLOYMENT

1993-96 Adjunct Professor, Department of Mechanical Engineering, University of Victoria
 1992- Distinguished Professor Emeritus, University of Waterloo
 1962-91 Professor, Department of Civil Engineering, University of Waterloo
 1982-88 Director, Institute for Risk Research, University of Waterloo
 1988 and 1992 Honorary Visiting Professor, Department of Statistics, University of New South Wales
 1987-88 and 1992-94 Profesor Visitante, Consejo Superior de Investigaciones Cientificas, Madrid, Spain
 1985-87 Visiting Professor, The University of Michigan
 1981 Investigador, Fundacion Javier Barros Sierra, Mexico D.F.
 1979 Erskine Visiting Professor, University of Canterbury, New Zealand

1977-78 Visiting Prof., Technical University of Denmark and Danish Engineering Academy
1975 Visiting Professor, Instituto de Ingenieria, Universidad Nacional Autonoma de Mexico
1973-74 Gulbenkian Research Fellow, Laboratorio Nacional de Engenharia Civil, Lisbon
1969 Professeur visiteur, genie civil, Universite Laval
1968-69 Senior Research Fellow, Department of Civil Engineering, Stanford University
1964-65 Visitor, Dept. of Engineering and Churchill College, University of Cambridge
1963-64 Chairman, Dept. of Civil Engineering, University of Waterloo
1960-63 Associate Professor, Dept. of Civil Engineering, University of Waterloo
1959-60 Assistant Professor, Theor. and Appl. Mech., University of Illinois
1958-59 Research Associate, Theor. and Appl. Mech., University of Illinois
1957-58 Instructor, Theor. and Appl. Mech., University of Illinois
1956-57 Research Assistant, Theor. and Appl. Mech., University of Illinois
1956 Design Engineer, Fenco, Montreal
1955 Field Engineer, Drake-Merritt, Labrador
1954-55 Engineer I, Outside Plant, Bell Telephone Company, Montreal
1953-54 Design Engineer, Dominia Ltd., Copenhagen

PROFESSIONAL ACTIVITY

Consultant to: Atomic Energy Control Board, BChydro, Butler Mfg. Co., Centro de Investigación Prospectiva Fundación Javier Barros Sierra, Federal Environmental Assessment Review Office, King Saud University, Ontario Ministry of Transportation and Communications, MIT Press, National Research Council of Canada, Newfoundland and Labrador Hydro, Northern Electric Co., Ontario Hydro, Pressure Vessel Research Committee of the (U.S.) Welding Research Council, (U.S.) Corps of Engineers, Westeel Rosco, and others.

COURSES TAUGHT

University of Illinois: Strength of Materials; Mechanical Behaviour of Materials; Photoelasticity; Theory of Elasticity; Continuum Mechanics.

University of Waterloo: Engineering Reliability and Risk Analysis; Mechanics of Deformable Solids; Advanced Strength of Materials; Theory of Structures; Statically Indeterminate Structures; Advanced Theory of Structures; Inelastic Behaviour of Ductile Members and Structures; Elementary Mechanics of Continua; Mathematical Methods in Applied Mechanics; Theory of Plates and Shells; Theories of Design; Energy Methods and Structural Stability; Reinforced Concrete Design; Approximate Analysis of Structures; Engineering Economics. Risk Management (Short Course); Reliability and Risk Analysis in Civil Engineering.

Laval University: Theorie d'instabilite et flambement des structures.

National Autonomous University of Mexico: Approximate Analysis of Structures

University of Canterbury, New Zealand: Reliability of Structures

Technical University of Denmark: Safety of Structures

Danish Academy of Engineering: Mathematical Methods of Optimization; Approximation in Structural Analysis

University of New South Wales: The Principles of Risk Analysis (Short Course)

LANGUAGES

French, German, Spanish and Scandinavian Languages

BIOGRAPHICAL DETAILS

Who's Who in America; Kraks Blaa Bog; Who's Who in Europe;
Canadian Who's Who; Who's Who in Education; American Men and Women of Science;
Who's Who in the East; Five Thousand Personalities of the World; Personalities of the Americas; European Biographical Directory.