

CV (short version)

TOR-HENNING IVERSEN

Myraskjenet 24,
5174 Mathopen
Telephone:
95 77 34 59
+47 55 93 71 31

Tor-Henning.Iversen@ntnu.no



EDUCATION/TRAINING

University of Bergen - cand. mag. (eq. to B.Sc.): Biology, Chemistry - 1967
University of Bergen - cand. real. (eq. to M.Sc.): Plant physiology - 1968
University of Trondheim - dr. philos. (eq. to Ph.D.): Plant physiology - 1974

RESEARCH AND PROFESSIONAL EXPERIENCE:

Scientific positions:

- Reader, Dept. of Botany, UNIT, 1971-73
- First Reader, Dept. of Botany, 1973-74
- Visiting professor, Inst. for Molecular Biology, University of Århus, 1975-76
- Full Professor in plant physiology/cell biology at Dept. of Botany, NTNU 1974 – 2011
- Professor emeritus 2011

Consultant:

Scientific consultant for: NAVF (Norwegian Research Council); NATO Scientific Affairs Div.; ESTEC (European Space & Techn. Center); Gyldendal Publisher; University Pub., Oslo., Biosan a.s., Biosan Pharma a.s.,

Supervisor functions:

- Supervisor for:
 - 100 cand.real./cand.scient.-students since 1974
 - 20 dr.scient./PhD-candidates since 1983

Teaching experience:

Since 1969 responsible for:

160 courses (30-100 hours) at all levels of the University. Topics: physiology, anatomy, cell biology, biotechnology, microbiology, biochemistry, chemical analysis, electron microscopy, industrial toxicology, environmental aspects, space research etc.

2011-2018 : Guest lectures for various student and senior groups

2011-2018 : Ordinary lectures in molecular biology (Mol 100) at the University in Bergen

Outside the University: Visiting lectures in Bergen and Trondheim at Technical Colleges. A large number of follow-up courses in cell biology, biotechnology, microbiology, biochemistry for high school lectures.

Evaluation Committees:

1971-2011 :Evaluation of 50 positions at universities in Denmark, Sweden, Norway, UK (readers, professors etc.).

Member of 16 dr. committees.

Member of ESA Peer Group under ESA (Spacelab-experiments),

External examiner at the University of Oslo, Bergen and Tromsø, Høgskolen in Nord-Trøndelag

Referee for: Physiologia Plantarum, Planta, Journ. of Exp. Botany, Journal of Gravitational Physiology and Life Sci. Adv., Adv. Space Res., J. Agric. Food Chem, J. Biotechnology and Bioengineering

Administrative experience:

1971-2014: Chairman, Co-chairman and member of 150 committees at the University, Technical High Schools, different Governmental Ministries and industry.

1995-2011: Chairman of the Plant Biocentre (25-30 persons), Dept. of Botany,
Chairman of N-USOC

Chairman of the Space Group at NTNU

1987-2005: Chairman of ALLFORSK (scientific research company)

2000-2004: Project coordinator for an EU-project (QLRT-PL1999-1479) – gene modification of strawberry – Norway, Germany, The Netherlands

1994-2005: Chairman of several industrial studies (e.g. Norsk Hydro ASA)

Space and biotechnology related activities:

1979-2014:

As head of the Plant Biocentre, Tor-Henning Iversen has been involved in space and biotechnology activities since 1979. He has served as:

- ESA Peer-Group member for the Spacelab D1 mission
- Member of the Life Science Working Group (LSWG) 1983-1989

- Member of Microgravity Advisory Committee (MAC) 1989 - 1993
- Chairman for the 6th European Symposium on Life Sciences Research in Space in Trondheim, June 17 - 21, 1996
- Member of the Governmental Group responsible for establishing the Norwegian Space Centre 1976
- Selecting committee for Norwegian astronauts 1990-1991
- Member of several national and local committees for the ESA Microgravity Programme 1987-1994
- Norwegian representative in the N-USO Study 1993-1994
- ESA Biolab Science Team Member for the Columbus Attached Laboratory 1989/1991
- ESA MCS Science Consultancy Group 1995 - 2001
- Manager for the ESA Test Bench Study 1996-1997
- Manager for the ESA FUMO BB Study
- Manager for several industrial studies in plant biotechnology (e.g. Norsk Hydro ASA) 1994 >
- Project Co-ordinator for EU project QLRT-PL1999-1479

He has also been an industrial team member/scientific consultant for:

- General Technology System, UK (1985): A pre-phase A study of a Gravitational Biology Facility for Columbus
- Dornier, Friedrichshafen, Germany (1986 >): Scientific consultant for several studies in space HW development and testing (Botany Facility, Oxygen pump, FUMO-components)
- Techno System Development, Napoli, Italy (1989): Vibration sensitivity of biological systems relevant to space biology research
- Verhaert Design and Development N.V., Belgium (1995 >): Scientific consultant for several studies in space HW development and testing e.g. ECS: Experiment Container Standardisation Study
- Biosan a.s. and Biosan Pharma a.s. - health plant products

As a PI (Principal Investigator) or CoI he has performed the following space experiments:

- Performed parabolic flight test with plant hardware — Dornier 228, DFVLR, Germany (1983)
- Co-investigator for PROTO on IML-1 (1992)
- PI for TRANSFORM on IML-2 (1994)
- PI for PROTO II on SMM/03 in March 1996
- PI for the MULTIGEN experiment in EMCS on the ISS (2007)
- Member of Science Advisory Board for EU-project Time Scale (2011-2018)

Fresh water related activities (in Norwegian):

1989 – 2017;

- Engasjert av Norges Kajak- og Kanoforbund, Norges Roforbund og Norges Vannskiforbund for utredning av "Miljøforstyrrelser ved utbygging av trenings- og konkurransebaner for vannidrett" , Fokus på Jonsvatnet, Iversen T-H. et al., 37 sider, 1989
- To foredrag på Temamøte – Hovedplan vannforsyning : "Jonsvatnet og vannkvalitet – sett ut fra et teknisk ståsted", og " Faglig og annen bakgrunn – Tor-Henning Iversen", 8. Februar 2005, Iversen, T-H.
- Adresseavisen, "Jonsvatnet – en kilde til sunnhet og glede?", Iversen, T-H.. 31. Mai 2003
- Foredrag for Høyre sin bystyregruppe i Trondheim, 15. Juni 2007: "Jonsvatnet og Litlvatnet – Hvordan bevare vannkvaliteten samtidig som man øker mulighetene for fritidsaktiviteter rundt Litlvatnet?", Iversen, T-H.
- Notat til grunneier Snorre Leth Olsen, Jonvatnet: "Kommentarer til SINTEF-rapport", 20. januar 2017
- Diverse arbeid for Arkitektkompaniet i Drammen og Lier kommune i tilknytning til utbygging av Gjellebekk og Høllaløkkka med kontrollert avrenning til Damtjern

- "Undersøkelse av Høllaløkk-området i Lier kommune – Sikring av biologisk mangfold – Samlerapport", Iversen, T-H. ;Aanes, K.J. NIVA; Eriksen, T.E. NIVA ;Moe, B. UiB, Skei, J.K. , Skei Biomangfold, Stjørdal, 25 sider, 3. Juli 2014
- Notat til ordfører Ulla Nævestad fra Faggruppe ledet av T.H. Iversen om utfylling av Damtjern for å sikre økologisk balanse og rekreasjonsinteresser, Lier kommune, 3. Januar 2010
- Omfattende arbeid knyttet til sikring av Vesvann som kriedrikkevannskilde i Kristiansand kommune i forbindelse med utbygging av Hamrevannområdet: "Samlerapport – Sikring av vannkvalitet i Vesvann", Høringsnotat til Kommunedelplan for Hamrevannområdet, Kristiansand", Iversen, T.H. ; Iversen, S.; Boge, A:J. 45 sider, juni 2015
- Omfattende studietur våren 2016 til Tyskland, Sveits og Nederland som ledd i arbeidet med sikring av Vesvann som kriedrikkevannskilde. Besøk hos og diskusjoner om vannrensing med Dr. Michael Nay (ETH Zürich, Switzerland - Specialist in ecological & sustainable constructions and its environmental impact , Zero emission buildings, protection of ground water), Prof. Dr-Ing. Jörg E. Drewes (TU München, Germany) - Head of Germany's next generation of wastewater treatment (Hormone, Microplastic particles, Pharmaceutical residues), Dipl. Ing. Thomas R. Franz, salgsdirektør Europa Trojan Technologies Deutschland GmbH, Mathias Eich, Regional Sales Manager Europe, Trojan Technologies Deutschland GmbH, Henk Provoost, director LIT , The Netherlands, Arman Ter-Hakobian, manager LIT , The Netherlands, Detlev Pallas, dipl.ing., Project Engineer Water Treatment, Prominent/Avd. ProMaqua, Heidelberg, Germany.

Honours and Awards:

1. Award for Exceptional Scientific and Popularisation Achievement (NTNU), 1998
2. Award for Exceptional Scientific and Popularisation Achievement in Scandinavia (SPPS), 2002
3. Member of Det Kongelige Norske Videnskabers Selskab (DKNVS) since 1976

Textbooks:

Editor and author for *25 textbooks* - 1971-2017.

Referee-articles /international journals :

Author and co-author for more than *595* articles



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