

CURRICULUM VITAE

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SKILLS

Since 1995 I have been working with different aspects of structural and chemical characterization, and applied to several structures; from plant cells exposed to micro-gravity to novel composite materials based on nanocellulose. During the last years I have been a principal researcher at the PFI, Paper and novel materials group. I have been manager of various national and international projects. Presently, I am the lead scientist of the Biocomposite area at PFI and project manager of the NanoHeal project, where we focus on activities related to nanocellulose production, its characterization, modification and application as a biomaterial.

EDUCATION

1998-2002 Dr ing, Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU)
1995-1997 Cand. scient. in Cellbiology, Department of Biology, Norwegian University of Science and Technology (NTNU)
- Cand mag., Department of Biology,
1991-1995 - Education within computer science, Dept. of informatics
University of Trondheim (UNIT)
1989-1990 Gerhard Schønning Skole, Trondheim, Norway.
1984-1987 High School: Colegio Gerónimo Rendic, La Serena, Chile.

EMPLOYMENT HISTORY

2013- Lead scientist - Biocomposites, Paper and Fibre Research Institute (PFI)
2008- Senior research scientist, Paper and Fibre Research Institute (PFI)
2004-2007 Research scientist, Paper and Fibre Research Institute (PFI)
2002-2003 Post doc/Research scientist, PFI/NTNU
1998-2002 Norwegian University of Science and Technology (NTNU):
Plantebiosenteret, NTNU
1995-1998 - Working with 3D reconstruction of plant cells grown in microgravity in the Atlantis space shuttle. Experiments performed at Kennedy Space Center
Department of physics, NTNU:
1996 - Analysis of plant cells exposed to varying electrical impulses.

TEACHING EXPERIENCE

2013 Invited organizer of the Nanocellulose workshop (in Spanish). University of Girona, Spain (2 days)
2011, 2012 Initiator and supervisor of the training course "Characterisation of nanostructured cellulose materials", PFI, Norway (165 hrs).
2009, 2010 Invited lecturer, Bio visualization course, Dept. of Biology NTNU, Norway.
2008 Invited lecturer, Paper tech. course, Dept. of Chemical engineering NTNU, Norway.
2006 Invited lecturer at the Chalmers/Södra Avancell Fibre Technology Seminar, Sweden.
2006 Invited lecturer in the advanced training course: 3D structure of paper. STFI-Packforsk, Stockholm, Sweden.
2003 Invited lecturer on coating layer characterisation, Pigment coating technology course for graduate students, Åbo Akademi, Finland.
1997 Cellbiology with genetics, Laboratory course (30 hrs)
Introduction to morphometrical analysis for biotechnology and cell biology students,
1995-1996 Department of Botany. Lecturer assistant in Cellbiology with genetics (75 hrs), Plant physiology (75 hrs) and Electron microscopy techniques (99 hrs).
1990-1994 - Trondheim Katedralskole: Spanish teacher (Part-time)

OTHER RELEVANT EXPERIENCE

- Norwegian representative in the COST action FP1105 - Understanding wood cell wall structure, biopolymer interaction and composition: implications for current products and new material innovation.
- Main opponent in Joakim Järnström's PhD thesis defence, Åbo Akademi, May 2010.
- Member of the scientific steering committee of the ImageJ conferences (2006, 2008, 2010) Luxembourg.
- Norwegian representative in the standardization program ISO/TC6/SC2/WG25: Surface roughness
- Norwegian representative in the standardization program ISO/TC6/WG3: Optical properties
- Norwegian representative in the COST E32: Characterisation of paper surfaces for improved printing paper grades.
- Referee of international journals and scientific applications.
- Apointed external examiner at the Faculty of Information Technology, Mathematics and Electrical Engineering
- Supervisor, co-supervisor of undergraduate, PhD students
- Cooperation with Norwegian and international research institutes, within biology, medicine, paper technology, image analysis and volcanic research.
- Member of the Technical Association of the Norwegian Pulp and Paper Industry

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