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**Ole Holst-Jensen**

## Curriculum Vitae

### Qualifications- resumé

2002 – Minus10dB

#### **General Manager, own company**

Primary areas of work: consultancy in development of low noise machinery, courses in Systematic Low Noise Design, and machinery acoustic measurements and analyses. Projects for Bombardier (trains), SEAS (windmill vibration monitoring), Projector (low noise design optimization), Haldor Topsøe (course in low noise design).

1999 – 2002 Ingemansson Technology AB

#### **Manager of Århus office**

Responsible for initiation and management of office for Ingemansson Technology  
Low noise design projects for: York Refrigeration (compressors), Dronningborg Maskinfabrik (Harvesters), ABB Turbinen (turbines), PipeCon (silencers), Niro (silencers), Dicon (filmmachines).

1993 – 99 Ødegaard & Danneskiold-Samsøe, Jylland ApS

#### **General Manager**

Responsible for initiation and management of office for Ødegaard og Danneskiold-Samsøe. Low noise design of projects for compressors, trains busses, trucks, power plants for companies like: Adtranz, DAB, Sabroe, Purup-Eskofot, DM-Industries, Wärtsilä Finland, Alstom

1989-93 – Abrahamsen & Nielsen A/S Århus

#### **Manager environmental department**

Responsible for acoustic consultancy work. Development of computer aided siren coverage software for planning warning systems in larger city areas. Building acoustic and machinery acoustic consultancy.

1986-89 – Ascan Scandia-Randers A/S, Randers

#### **Project responsible for noise and vibrations problems**

Development of the low noise design of the IC3 train for Danish railways. Establishment of acoustic laboratory facilities. Responsible for the introduction of Finite Element calculations.

1983-86 – Jydsk Teknologisk Institut, Lydteknik, Århus

#### **Consultant, mashinery noise**

Responsible for machinery acoustic noise projects. Typical projects: Development of procedures for EU-testing silencing systems for cars. Low noise design of heatpumps.

1977-83 – Danfoss A/S, OG, Nordborg

**R&D engineer**

Responsible for knowledge and facilities for development of low noise hydraulic machines.

**Education**

1967 Svendborg Statsgymnasium, Svendborg  
Matematisk student

1974 Danmarks Tekniske Højskole, Lyngby  
M.Sc. Mechanical Engineering  
Thesis in fluid mechanics department, title : Free field correction for condenser microphones

1974-77 University of Toronto, Canada  
Ph.D student  
Enrolled in Ph.D program at Institute for Aerospace Studies at University of Toronto.  
Aerospace engineering, gasdynamics. Thesis: Risetimes of Sonic Booms

**Publications**

”Free – field corrections for condenser microphones”. Medforfatter, Contributed paper  
International Congress of Acoustics 1975

” Free- field corrections for condenser microphones”, Co-author Acustica 1975

”Risetimes of weak shock waves”. Technical Note: Institute for Aerospace Studies at  
University of Toronto 1979

”Weak Spherical Shock-Wave Transitions of N-waves in air with vibrational Excitation”. Co-  
author, Contributed Paper 13<sup>th</sup> International Symposium on Shock Tubes and Waves 1981,  
Niagara Falls, USA

”Radiation efficiencies of plane plates under airborne and shaker control”. Contributed paper  
Inter Noise 1985, München Tyskland

”Noise from air/water heatpumps”, Danish Energy Ministry research programme. August  
1986

”Reduction of structureborne Noise in Copenhagen S-trains”. Contributed Paper Inter Noise  
1988, Avignon Frankrig

”Experimental and numerical studies of weak blast waves in air”. Co-author. Shock Waves  
1991

”Computer aided Siren Coverage”, Contributed Paper Inter Noise 1991, Sydney Australien

”Low noise design for Danish Inter-city train”, Contributed Paper Inter Noise 1991, Sydney  
Australien

”Standard design of low noise machinery ?”, Contributed Paper, Nordisk Akustisk Møde  
1993, Århus

”Trends in low noise train design”, Invited Paper, Inter Noise 1995, Japan

”Noise in iron- and metal working Industry”, Book in danish: ”Støjdæmpning i jern- og  
metalindustrien”. Arbejdsmiljørådets Service Center, 1999. ISBN 87-90897-02-3.

”Systematic design of low noise machinery” International Congress on Sound and Vibration, ISCV10, Stockholm, Sweden 2003

“Methods to investigate the possibilities of using a three element periodic structure to suppress the transmission of energy in an elastic pipe.” By Ole Holst-Jensen, Minus10dB and Sergey Sorokin, Professor at Aalborg University Center  
Presented as an invited paper at Compdyn 2007 an ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering. Crete 2007

## **Courses and invited talks**

Post graduate course teacher: DIEU: ”Design of Low Noise Machinery”, in Danish: ”Konstruktion af støjsvage maskiner” in the period 1980-82, og DIEU course: ”Machinery Acoustics”, in Danish: ”Maskinakustik” 1983-1985

”Course in environmental noise measurement”, in Danish: ”Kursus i ekstern støjmåling” for Vejle Amtskommune 1989

Course teacher at SAVOIR course programme EU-Comett:  
”Systematic Low Noise Design”, Berlin 1994, Berlin 1995, Istanbul 1998

Talk at the satellite symposium ”Good Health is Good Business” held by Health and Safety Executive England at Earls Court, London 1998, on the occasion of the UK foremanship leadership of the EU.

Company adjusted courses in low noise design at the companies: Danfoss, Torsted Maskiner, Scandia Randers, Møller og Jochumsen, Cimbria, Haldor Topsøe, York Refrigeration (Johnson Control).

Lecturer at Ph.D. course in Machine Acoustics DCAMM (Danish Centre for Applied Mechanics) 20 - 22 August 2002

## **Memberships**

Dansk Akustisk Selskab, Member of Acoustic Society of America, Scandinavian Vibration Society.

## **Foreign languages**

Fluent spoken and written English, German spoken at technical conversation level.

## **Accreditations**

Accredited to measure according to the Danish Miljøstyrelsen to measure environmental noise, in Danish: Miljømåling- Ekstern Støj. Accredited by Swedac to measure sound power according to ISO 3744, and sound intensity according to ISO 9614-2 while at Ingemansson.

Appointed by Danish Standard as participant in working group ISO/TC43/SC1/WG34 with the working title: ”Design of low noise machinery”. Published as ISO/TR 11688-1 1995 and 1688-2.

Appointed by Danish Standard as convener for the working group: ISO/TC43/SC1/WG41 with the working title: ”Sound emission from stationary warning devices used outdoors, part 1 field method, part 2 precision method”. The work was initiated on own initiative in 1991 and finalized in 1999 with part 1: ISO 13745-1 and part 2: ISO/TS 13745-2.

Appointed Censor at Technical University of Denmark, Department of Industrial Acoustics for the course: ”Machinery noise in the industry”, in Danish: ”Maskinstøj i Industrien” and for masters projects in the period 1989 – 1995.

Appointed by the Danish: ”Voldgiftsnævnet for bygge og anlæg” as expert surveyor in

projects with noise problems.

Member of the board of AKUNET, a network of companies involved in acoustic design problems. Center at Aalborg University in Aalborg.

Appointed censor for the engineering education at Aalborg University for the period 2002 - 2006.

## **Personal**

Born 1949 in Svendborg, Denmark. Married in 1974 to Anni. We have 3 children.

My interests are my family, design and building of hydrofoil boats, choir singing and classical cars.