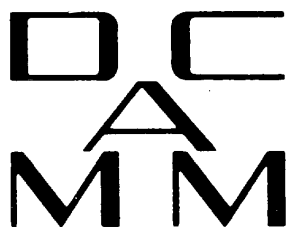


DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

**ANNUAL REPORT
2014**



**TECHNICAL UNIVERSITY OF DENMARK -
AALBORG UNIVERSITY - AARHUS UNIVERSITY
– UNIVERSITY OF SOUTHERN DENMARK**

DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

Scientific Council as of January 2015

Morten Brøns	DTU Compute
Allan P. Engsig-Karup	DTU Compute
Michael Havbro Faber	DTU Civil Engineering
Jesper Henri Hattel	Dept. of Mechanical Engineering, DTU
Jan Høgsberg	Dept. of Mechanical Engineering, DTU
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Erik Lund	Dept. of Mechanical Engineering, AAU
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Søren R.K. Nielsen	Dept. of Civil Engineering, AAU
Christian Niordson	Dept. of Mechanical Engineering, DTU
Niels Leergaard Pedersen	Dept. of Mechanical Engineering, DTU
Pauli Pedersen	Dept. of Mechanical Engineering, DTU
Achim Schroll	Dept. of Mathematics and Computer Science
Jens Starke	DTU Compute
Mathias Stolpe	DTU Wind Energy
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Chairman

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FOREWORD

This 2014 annual report contains information on publications, seminars and guests. The report mainly serves as a reference and documentation for accomplished activities. Detailed information is available on our homepage: www.dcammm.dk and on the hompages of the cooperating departments.

This year's annual speaker seminar was given by Professor GertJan van Hejst from Eindhoven University of Technology under the title "The behavior of vortex structures near solid obstacles". For the first time the annual lecture was also given at Aarhus University. Furthermore, a total of 9 DCAMM seminars were held in 2014 and 20 courses were given in the auspices of DCAMM. All the details are available at the DCAMM webpage.

As of September 1st, 2014 Niels Leergaard Pedersen has taken over the chairmanship of DCAMM.

As of January 1st 2015, the departments cooperating in DCAMM are:

from the **Technical University of Denmark:**

DTU Civil Engineering

DTU Compute

DTU Mechanical Engineering

DTU Wind Energy

from **Aalborg University:**

Department of Civil Engineering

Department of Mechanical and Manufacturing Engineering

from **Aarhus University**

Department of Engineering

from **University of Southern Denmark**

Department of Mathematics and Computer Science

Department of Technology and Innovation

I thank all the members of DCAMM and our international contacts for their support and inspiration, and I look forward to our future continued collaboration.

Niels Leergaard Pedersen

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1. MEMBERS 2014

57 professors
208 scientific members
132 PhD students

} at the nine cooperating departments at the Center

27 elected members
8 foreign members

(A complete list of names is given in the Appendix).

2. FOREIGN MEMBERS

Professor G.I. Barenblatt
Department of Mathematics
University of California, Berkeley
970 Evens Hall # 3840
Berkeley, CA 94720-3840
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Professor John W. Hutchinson
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Cambridge, MA 02138
USA

Professor Joseph B. Keller
Department of Mathematics and Mechanical Engineering
Stanford University, Stanford, California
USA

Professor Michael S. Longuet-Higgins
Department of Applied Mathematics and Theoretical Physics
University of Cambridge
UK

Professor Ole Secher Madsen
Ralph M. Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139
USA

Professor Alan Needleman
Department of Materials Science & Engng.
Texas A&M University 3003
College Station
TX 77843-3003
USA

Professor S. Nemat-Nasser
The UCSD Jacobs School of Engineering
Center of Excellence for Advanced Materials
4209 Engineering Building I
9500 Gilman Drive
La Jolla, CA 92093
USA

Professor Bertil Storåkers
Kungliga Tekniska Högskolan
S-100 44 Stockholm 9500
Sweden

3. GUESTS FOR EXTENDED PERIODS IN 2014 (more than a fortnight)

Guest professors & post docs:

Al-Naimi, Ihsan Kadhom Abbas Mostafa, Ministry of Education, Iran, 1.4.14 – 31.12.14

Caliskan, Ugur, Istanbul Technical University, Turkey, 1.12.14 –

Carlsson, Leif A., Florida Atlantic University, USA, 1.5.14 – 31.5.14

Donoso, Alberto, Universidad de Castilla – La Mancha (ULM), Spain, 1.8.14 – 31.8.14

Gruzman, Mauricio, IME, Brazil, 1.8.14. –

Guest, James, Johns Hopkins University, USA, 15.4.14 – 15.8.14

Gimeno, Vicent, Universitat Jaume I, Castello de la Plana, Spain, 20.4.14 – 30.5.14

Hogan, John, Bristol University, UK, 1.1.14 – 31.8.14

Isobe, Takanori, Sony Corporation, Japan, 1.3.14 – 31.5.14 & 5.11.14 – 5.12.14

Kim, Rae Young, KAIST, Korea, 29.7.14 – 27.8.14

Larsen, Ulrik, Chalmers Tekniska Högskola, Sweden, 1.10.14 –

Lian, Haojie, Cardiff University, Cardiff, UK, 1.11.14 –

Lorenz, Thomas, University of App. Sciences Wiesbaden, Germany, 14.8.14 – 26.8.14

Machuta, Jiri, Czech Republic, 1.9.14 – 19.10.14

Mansouri, Seyed Hossein, Shahid Bahonar University of Kerman, Iran, 1.2.14 – 31.10.14

Snyder, Troy, University of Akron, USA, 1.2.14 – 30.6.14

Stoeva, Diana, University of Wien, Austria, 2.3.14 – 31.3.14

Yu, Hongbo, Tsinghua University, China, 10.9.14 –

Zambrano, Harvey, Universidad de Concepcion, Chile, 1.7.14 – 24.8.14

PhD students

Becker, Sarah, University of Frankfurt, Germany, 1.1.14 – 31.12.14

Choi, Ju-Hyuck, Hyundai Heavy Industries co. Ltd., Korea, 11.8.14 – 31.1.17

Esfahani, Mohammad Nasr, KOC University, Iran, 1.11.14 –

Fernandez, Unai, University of Basque Country, Spain, 1.8.14 – 31.8.14

Groden, Mark, University of Michigan, USA, 20.1.14 – 7.6.14

Gullo, Paride, University of Udine, Italy, 4.11.14 –

Hasannasab, Marzieh, Kharazmi University of Tehran, Iran, 22.9.14 –

Jianjun, Shi, Soochow University, China, 1.9.14 –

Morales, Hector Fernandez, University Carlos III Madrid, Spain, 25.4.14 – 30.5.14

Orlandini, Valentina, Bologna University, Italy, 28.8.14 – 21.12.14

Pañeda, Emilio Martinez, University of Oviedo, Spain, 12.8.14 – 30.11.14

Pang, Li Jian Andrew, Nanyang Technological University, Singapore, 1.8.14 –

Suarez de la Fuente, Santiago, University College London, UK, 1.8.14 – 31.8.14

Van Hoorickx, Cédric, KU Leuven, Belgium, 11.8.14 – 11.10.14

4. PUBLICATIONS IN 2014

4A. INTERNATIONAL JOURNALS WITH PEER REVIEW

A

Aage, N.; Andreassen, E.; Lazarov, B. S.

Topology optimization using PETSc: An easy-to-use; fully parallel; open source topology optimization framework. *Structural and Multidisciplinary Optimization*, (2014).

Nobel-Jørgensen, M.; Aage, N.; Christiansen, A. N.; Igarashi, T.; Bærentzen, J. A.; Sigmund, O.
3D interactive topology optimization on hand-held devices. *Structural and Multidisciplinary Optimization*, (2014).

Shabadi, R.; Ambat, R.; Dwarakadasa, E. S.

AZ91C magnesium alloy modified by Cd. *Materials, Design*, (2014), 53, 445-451.

Aggerbeck, M.; Junker-Holst, A.; Vestergaard Nielsen, D.; Gudla, V. C.; Ambat, R.

Anodisation of sputter deposited aluminium–titanium coatings: Effect of microstructure on optical characteristics. *Surface and Coatings Technology*, (2014), 254, 138-144.

Canulescu, S.; Rechendorff, K.; Borca, C. N.; Jones, N. C.; Bordo, K.; Schou, J.; Nielsen, L. P.; Hoffmann, S. V. ; Ambat, R.

Band gap structure modification of amorphous anodic Al oxide film by Ti-alloying. *Applied Physics Letters*, (2014), 104(12).

Gudla, V. C.; Canulescu, S.; Shabadi, R.; Rechendorff, K.; Dirscherl, K. ; Ambat, R.

Structure of anodized Al–Zr sputter deposited coatings and effect on optical appearance. *Applied Surface Science*, (2014), 317, 1113-1124.

Alexandersen, J.; Aage, N.; Andreasen, C. S. ; Sigmund, O.

Topology optimisation of natural convection problems. *International Journal for Numerical Methods in Fluids*, (2014), 76(10), 699-721.

Andersen, I. M. V. ; Jensen, J. J.

Measurements in a container ship of wave-induced hull girder stresses in excess of design values. *Marine Structures*, (2014), 37, 54-85.

Damgaard, M.; Bayat, M.; Andersen, L. V.; Ibsen, L. B.

Assessment of the Dynamic Behaviour of Saturated Soil Subjected to Cyclic Loading from Offshore Monopile Wind Turbine Foundations. *Computers and Geotechnics*, (2014), 61(September 2014), 116-126.

Damgaard, M.; Andersen, L.V.; Ibsen, L.B.

Computationally Efficient Modelling of Dynamic Soil-Structure Interaction of Offshore Wind Turbines on Gravity Footings. *Renewable Energy*, (2014), 68(August), 289-303.

Damgaard, M.; Zania, V.; Andersen, L.V.; Ibsen, L.B.

Effects of soil-structure interaction on real time dynamic response of offshore wind turbines on monopiles. *Engineering Structures*, (2014), 75(September 2014), 388-401.

Vahdatirad, M.; Andersen, L. V.; Ibsen, L. B.; Sørensen, J. D.
Stochastic dynamic stiffness of surface footing for offshore wind turbines – a subset simulation approach. *Soil Dynamics and Earthquake Engineering*, (2014), 65, 89-101.

Vahdatirad, M. J.; Griffiths, D. V.; Andersen, L. V.; Sørensen, J. D.; Fenton, G. A.
Reliability analysis of a gravity-based foundation for wind turbines: a code-based design assessment. *Geotechnique*, (2014), 64(8), 635 – 645.

Ali, N.; Andersen, M.S.; Rasmussen, J.; Robertson, G.; Rouhi, G.
The Application of Musculoskeletal Modelling to investigate Gender bias in non-contact ACL injury rate during Single-leg Landings. *Computer Methods in Biomechanics and Biomedical Engineering*, (2014), 17(14), 1602-1616.

Fluit, R.; Andersen, M.S.; Kolk, S.; Verdonschot, N.; Koopman, B.H.F.J.M.
Prediction of ground reaction forces and moments during various activities of daily living. *Journal of Biomechanics*, (2014), 47(10), 2321-2329.

Andreassen, C. S.; Andreassen, E.; Jensen, J. S. ; Sigmund, O.
On the realization of the bulk modulus bounds for two-phase viscoelastic composites. *Journal of the Mechanics and Physics of Solids*, (2014), 63, 228-241.

Andreassen, J. G.; Larsen, U.; Knudsen, T.; Pierobon, L. & Haglund, F.
Selection and optimization of pure and mixed working fluids for low grade heat utilization using organic Rankine cycles. *Energy*, (2014), 73, 204-213.

Andreassen, E.; Andreassen, C. S.
How to determine composite material properties using numerical homogenization. *Computational Materials Science*, (2014), 83, 488-495.

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Topology optimization of periodic microstructures for enhanced dynamic properties of viscoelastic composite materials. *Structural and Multidisciplinary Optimization*, (2014), 49(5), 695-705.

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Design of manufacturable 3D extremal elastic microstructure. *Mechanics of Materials*, (2014), 69, 1-10.

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Features of a fully renewable US electricity system: Optimized mixes of wind and solar PV and transmission grid extensions. *Energy*, (2014), 72, 443-458.

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Yang, Z.; Liu, S.; Bingham, H. B. ; Li, J.

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Bolmsvik, Å.; Linderholt, A.; Brandt, A.; Ekevid, T.

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An high order Mixed Interpolation Tensorial Components (MITC) shell element approach for modeling the buckling behavior of delaminated composites. *Composite Structures*, (2014), 108(1), 657-666.

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Load calculation methods for offshore wind turbine foundations. *Ships and Offshore Structures*, (2014), 9(4), 433-449.

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An efficient domain decomposition strategy for wave loads on surface piercing circular cylinders. *Coastal Engineering*, (2014), 86, 57-76.
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Forcing of a bottom-mounted circular cylinder by steep regular water waves at finite depth. *Journal of Fluid Mechanics*, (2014), 755, 1-34.
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Mathematical modelling of dextran filtration through hollow fibre membranes. *Separation and Purification Technology*, (2014), 125.
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Predicting optimal back-sock times in ultrafiltration hollow fibre modules through path-lines. *Journal of Membrane Science*, (2014), 470, 275-293.
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Budzik, Michael K.; Jensen, Henrik Myhre
 Perturbation analysis of crack front in simple cantilever plate peeling experiment. *International Journal of Adhesion and Adhesives*, (2014), 53, 29-33.

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 Experimental investigation of mesoscale crack front triple line. *Applied Physics A*, (2014) 114(2), 495-501.

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 Analytical and Experimental Investigations of Crack Propagation in Adhesively Bonded Joints with the Mixed Mode Bending (MMB) test Part I: Macroscopic analysis & Digital Image Correlation measurement. *Theoretical and Applied Fracture Mechanics*, (2014), 74, 209-221.

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Landowski, M.; Budzik, Michal K.; Imielska, K.
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C

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 Microfluidic chip designs process optimization and dimensional quality control. *Microsystem Technologies*, (2015), 21(3), 561-570.

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 On the importance of the distance measures used to train and test knowledge-based potentials for proteins. *P L o S One*, (2014), 9(11).

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Cerda Varela, A. J. ; Santos, I.
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Christensen, O.

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Christensen, O.; Goh, S.S.

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Christensen, O.; Kim, H.O.; Kim, R.Y.

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Investigation of Jojoba Oil-wax as a Plasticizer for Poly(lactic acid), (2014), 8(1-2), 109-114.

Christiansen, P.; Hattel, J. H.; Bay, N.; Martins, P. A. F.

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Clausen, A.; Aage, N.; Sigmund, O.

Topology optimization with flexible void area. Structural and Multidisciplinary Optimization, (2014), 50(6), 927-943.

Clausen, L. R.

Integrated torrefaction vs. external torrefaction - A thermodynamic analysis for the case of a thermochemical biorefinery. Energy, (2014), 77, 597-607.

Conseil, H.; Jellesen, M. S.; Ambat, R.

Contamination profile on typical printed circuit board assemblies vs soldering process. Soldering ; Surface Mount Technology, (2014), 26(4), 194-202.

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- S177: LARSEN, JON STEFFEN: Nonlinear Analysis of Rotors Supported by Air Foil Journal Bearings – Theory & Experiments (February 2015)

6. OTHER THESES

AGGERBECK, MARTIN: “Tailored Aluminium based Coatings for Optical Appearance and Corrosion Resistance”, DTU Mechanical Engineering, 2014, PhD Thesis.

ALKHZAIMI, HODA A.: “Cryptanalysis of Selected Block Ciphers”, DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.

ANDERS, ANNETT: “Real-time decision support in the face of emergin natural hazard events”, DTU Civil Engineering, 2014, PhD Thesis.

ANDERSEN, CAMILLA SLOTH: “Udpegning af risikolokaliteter på det tosporede vejnet I åbent land baseret på data om vejens karakteristika”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

ANDERSEN, SØREN JUHL: “Simulation and prediction of wakes and wake interaction in wind farms”, DTU Wind Energy, 2014, PhD Thesis.

AWADALKARIM, AHMED: “Petrophysics of Palaeogene sediments”, DTU Civil Engineering, 2014, PhD Thesis.

BIGONI, DANIELE: “Uncertainty Quantification with Applications to Engineering Problems”, DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.

BIHLET, UFFE: “High Temperature Resistant Exhaust Valve Spindle”, DTU Mechanical Engineering, 2014, PhD Thesis.

BRAND, MARCK: “Heating and Domestic Hot Water Systems in Buildings Supplied by Low-Temperature District Heating”, DTU Civil Engineering, 2014, PhD Thesis.

CALAON, MATTEO: “Process validation in micro and nano replication”, DTU Mechanical Engineering, 2014, PhD Thesis.

CHIVAE, HAMID SARLAK: “Simulation and Modelling of Wakes and Wake Interaction in Offshore Wind Farms”, DTU Wind Energy, 2014, PhD Thesis.

DAMGAARD, MADS: “Dynamic Properties of Offshore Wind Turbine Foundations”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

DARULA, RADOSLAV: “Semi-active vibration control by means of electro-magnetic elements”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.

DAVIDSDOTTIR, SVAVA: “Investigation of photocatalytic activity of TiO₂ coatings on metallic substrates prepared by PVD”, DTU Mechanical Engineering, 2014, PhD Thesis.

DICKOW, KRISTOFFER AHRENS: “Prediction of Noise Transmission in Lightweight Building Structures”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

- DOMADIYA, PARTHKUMAR GANDALAL: "Mitigation of Flanking Noise Transmission in Periodic Structures of Lightweight Elements", Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.
- ELMEGÅRD, MICHAEL: "Mathematical Modeling and Dimension Reduction in Dynamical Systems", DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.
- ERIKSEN, RASMUS NORMANN: "High Strain Rate Characterisation of Composite Materials", DTU Mechanical Engineering, 2014, PhD Thesis.
- FARAHANI, SAEED DAVOUDABADI: "Human Posture and Movement Prediction Based on Musculoskeletal Modeling", Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.
- FERRI, FRANCESCO: "Wave-to-wire Modelling of Wave energy Converters: Critical Assessment, Developments and Applicability for Economical Optimisation", Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.
- FLOORS, ROGIER RALPH: "Boundary-layer wind profile, measurements and theory", DTU Wind Energy, 2014, PhD Thesis.
- GALIOTTO, NICOLAS: "The Integrated Renovation Process: A Holistic Methodology Towards Nearly Zero Energy Buildings", Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.
- GASSO-TORTAJADA, VICENT: "Assessing Sustainability of Agricultural Systems: Balancing context specificity and generality", Aarhus University, Department of Engineering, 2014, PhD Thesis.
- GONZÁLEZ, FERNANDO LUIS PINERO: "An Algebraic Approach to Graph Codes", DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.
- HANSEN, CHRISTIAN LINDSCHOU: "Coordinated development of product architecture and business processes", DTU Mechanical Engineering, 2014, PhD Thesis.
- HARTHØJ, ANDERS: "Electroplating of Protective Coatings on Intercnects Used for Solid Oxide Fuel Cell Stacks", DTU Mechanical Engineering, 2014, PhD Thesis.
- HUDE CZ, ADRIANA: "Icing Problems of Wind Turbine Blades in Cold Climates", DTU Wind Energy, 2014, PhD Thesis.
- JENSEN, MARTIN ANDREAS FALK: "Operations planning for agricultural machinery under capacity constraints", Aarhus University, Department of Engineering, 2014, PhD Thesis.
- JENSEN, M.M.: "A Coupled Transport and Chemical Model for Durability Predictions of Cement Based Materials", DTU Civil Engineering, 2014, PhD Thesis.
- KIAMEHR, SAEED: "Modelling of High Temperature Corrosion of Metals in Biomass-fired Power Plants", DTU Mechanical Engineering, 2014, PhD Thesis.

KJARTANSDOTTIR, CECILIA K.: “Development of Hydrogen Electrodes for Alkaline Water Electrolysis”, DTU Mechanical Engineering, 2014, PhD Thesis.

KOLMOGOROV, DMITRY: “Simulation of flows past a wind turbine with wind shear using Navier-Stokes based sliding mesh technique”, DTU Wind Energy, 2014, PhD Thesis.

KOTOL, MARTIN: “Energy use and indoor environment in new and existing dwellings in Arctic climates”, DTU Civil Engineering, 2014, PhD Thesis.

KOUKOURA, CHRISTINA: “Validated loads prediction models for offshore wind turbines for enhanced component reliability”, DTU Wind Energy, 2014, PhD Thesis.

KRABBE, MADS: “Fracture Toughness of Thin Films Estimated by Rockwell C Indentation”, Aarhus University, Department of Engineering, 2014, PhD Thesis.

LAUSTSTEN, STEFFEN: “Investigation of the failure behaviour and design of sandwich structures with grid-scored core materials for wind turbine blades”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.

LÁRUSDÓTTIR, ALDÍS RÚN: “Evacuation of Children: Focusing on daycare centers and elementary schools”, DTU Civil Engineering, 2014, PhD Thesis.

LAURITSEN, DIANG: “Durability of future energy-efficient building components”, DTU Civil Engineering, 2014, PhD Thesis.

LE DRÉAU, JÉRÔME: “Energy flow and thermal comfort in buildings: Comparison of radiant and air-based heating & cooling systems”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

LEONG, MARTIN KLITGAARD: “The influence of defects on the failure of wind turbine blades”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.

MA, JING: “Study of single walled carbon nanotube reinforced polymer composites by Hansen solubility parameters”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.

MADSEN, JAN BUSK: “Investigation of the surface adsorption and biotribological properties of mucins”, DTU Mechanical Engineering, 2014, PhD Thesis.

MADSEN, SØREN: “Buckling of Bucket Foundations During Installation”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

MARMARAS, KONSTANTINOS: “Optimal Design of Composite Structures under Manufacturing Constraints”, DTU Wind Energy, 2014, PhD Thesis.

MARSCHLER, CHRISTIAN: “Coarse Analysis of Microscopic Models using Equation-Free Methods”, DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.

MARTYNIUK, KAROLINA: “Studies of 3D microscale damage evolution in composites materials for wind turbines”, DTU Wind Energy, 2014, PhD Thesis.

MAHSHID, RASOUL: “High Performance Transfer Press for Precision Manufacturing of Micro Parts”, DTU Mechanical Engineering, 2014, PhD Thesis.

MATTEONI, G.: “Understanding and simulating vibrations of plain bridge cables under varying meteorological conditions: Wind tunnel experimental work and analytical modelling”, DTU Civil Engineering, 2014, PhD Thesis.

MBIA, ERNEST NCHA: “Assessment of Dynamic Flow Pressure and Geomechanical Behaviour of a CO2 Storage Complex”, DTU Civil Engineering, 2014, PhD Thesis.

NIELSEN, JESPER ELLERBÆK: “Combining C- and X-band Weather Radars for Improving Precipitation Estimates over Urban Areas”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

OLESEN, CHRISTIAN GAMMELGAARD: “The Influence of Sitting Conditions on Soft Tissue Loads”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2014, PhD Thesis.

OROPEZA-PEREZ, IVAN: “The Impact of an Extensive Usage of Controlled Natural Ventilation in the Residential Sector on Large-Scale Energy Systems”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

PEDERSEN, HANS HENRIK: “Wide Span technology for efficient and environmental friendly vegetable production”, Aarhus University, Department of Engineering, 2014, PhD Thesis.

PEDERSEN, JESPER GRØNNEGAARD: “Numerical modelling of the boundary-layer wind profile”, DTU Wind Energy, 2014, PhD Thesis.

PERISIC, NEVANA: “System Identification of Wind Turbines for Structural Health Monitoring”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

ROSENBRAND, ESTHER: “Effect of temperature on sandstone permeability: Mineral-fluid interaction”, DTU Civil Engineering, 2014, PhD Thesis.

RØN, TROELS: “A Biometric Approach to Lubricate Engineering Materials”, DTU Mechanical Engineering, 2014, PhD Thesis.

SKIBSTED, GRY: “Matrix changes and side effects induced by electrokinetic treatment of porous and particulate materials”, DTU Civil Engineering, 2014, PhD Thesis.

SOLGAARD, ANDERS O.S.: “Corrosion of reinforcement bars in steel fibre reinforced concrete structures” DTU Civil Engineering, 2014, PhD Thesis.

SVEC, OLDRICH: “Flow modelling of steel fibre reinforced self-compacting concrete”, DTU Civil Engineering, 2014, PhD Thesis.

VAHDATIRAD, MOHAMMAD JAVAD: “Reliability-Based Design of Wind Turbine Foundations – Computational Modelling”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

VANHOUTTEGHEM, LIES: “Method for design of lwo-energy type houses based on simulations of indoor environment and energy use”, DTU Civil Engineering, 2014, PhD Thesis.

VILLA, MATTEO: “Isothermal Martensite Formation”, DTU Mechanical Engineering, 2014, PhD Thesis.

WEHMEYER, CHRISTOF: “A Floating Offshore Wind Turbine in Extreme Wave Conditions”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

WELDEYESUS, ALEMSEGED GEBREHIWOT: “Free Material Optimization of Wind Turbine Blades”, DTU Wind Energy, 2014, PhD Thesis.

WEST, OLE H.: “Failure Analysis and Thermochemical Surface Engineering of Barings in the Wind Turbine Drivetrain”, DTU Mechanical Engineering, 2014, PhD Thesis.

WIND-WILLASSEN, ØISTEIN: “Mathematical modelling of wetting properties of micro- and nano structured polymer surfaces”, DTU Compute, Department of Applied Mathematics and Computer Science, 2014, PhD Thesis.

WU, MIN: “Using low temperature calorimetry and moisture fixation method to study the pore structure of cement based materials”, DTU Civil Engineering, 2014, PhD Thesis.

WÖRÖSCH, MICHAEL: “End-to-end requirements management for multi-projects in the construction industry” DTU Mechanical Engineering, 2014, PhD Thesis.

ZAJAS, JAN JAKUB: “Experimental Characterization and modeling of Advanced Polymer Composite Window Frames”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

ZURKINDEN, ANDREW: “Analysis of a Wave Energy Converter with Particular Focus on the Effects of Power Take-Off Forces on the Structural Responses”, Aalborg University, Department of Civil Engineering, 2014, PhD Thesis.

7. DCAMM SEMINARS GIVEN IN 2014

Professor Alberto Cardona: Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth generalized- α scheme. 18 March 2014. Universidad Nacional del Litoral, Santa Fe, Argentina.

Researcher, PhD Carl Dahlberg: Direct measurements of grain boundary mechanics in an Aluminium bicrystal using a newly developed EBSD-based method. 13 May 2014. KTH Royal Institute of Technology, Stockholm, Sweden.

Dr. Antonio Filippone: Long-Range Noise Propagation. 20 May 2014. The University of Manchester, Manchester, United Kingdom.

Dr. Basil Audoly: Non-linear mechanics of elastic and viscous threads. 24 June 2014. CNRS and University Paris 6, Paris, France.

Professor Kurt Anderson: Multibody methods for the Efficient modeling and Simulation of large Molecular Systems. 25 June 2014. Dept. of Mechanical, Aerospace and Nuclear Engineering, Rensselaer Polytechnic Institute, Troy, USA.

Associate Professor Qingda Yang: Micro- and Macroscopic Failure Mechanisms in Composites and High-Fidelity Simulation based Virtual Testing. 26 June 2014. Dept. of Mechanical and Aerospace Engineering, University of Miami. Cora Gables, FL, USA.

Professor, Dr. Sujoy Kumar Saha: Enhanced Heat Transfer. 29 August 2014. Dept. of Mechanical Engineering, Indian Institute of Engineering Science and Technology, Shibpur, India.

Principal Reservoir Engineer Ole Jørgensen: Novel finite-element approach arising from composite materials research Applied to borehole acoustics. 10 December 2014. Mærsk Oil and Gas A/S, Copenhagen, Denmark.

Dr., PhD Daniel Balint: Dynamic Discrete Dislocation Plasticity for Extremely High Strain Rates. 12 December 2014
Dept. of Mechanical Engineering, Imperial College London, United Kingdom

8. DCAMM COURSES GIVEN IN 2014

DTU Mechanical Engineering

Experimental fluid dynamics and data interpretation

High Performance Computing: FORTRAN, Open MP and MPI

Journal club in fluid mechanic

Journal club in internal Combustion Engines

Advanced Engineering Thermodynamics

Electron Microscopy and Analysis for Materials Research

Micro Mechanical Systems Design and Manufacture (PhD summer school)

Nanotribology: Theory and applications

Measurement uncertainty estimation using statistical methods

DTU Compute

Advanced Numerical Methods for Differential Equations

APPENDIX: List of members 2014

Abbreviations:

from Technical University of Denmark

CIVIL: Dept. of Civil Engineering
 COMPUTE: Dept. of Applied Mathematics and Computer Science
 MEK-FAM: Dept. of Mechanical Engineering, Solid Mechanics
 MEK-FVM: Dept. of Mechanical Engineering, Fluid Mechanics,
 Coastal and Maritime Engineering
 MEK-K&P: Dept. of Mechanical Engineering, Engineering Design and Product
 Development
 MEK-MPP: Dept. of Mechanical Engineering, Manufacturing Engineering
 MEK-MTU: Dept. of Mechanical Engineering, Materials and Surface Engineering
 MEK-TES: Dept. of Mechanical Engineering, Thermal Energy

WIND: DTU Wind Energy

from Aalborg University

CIVIL, AAU: Department of Civil Engineering
 M-TECH, AAU: Department of Mechanical and Manufacturing Engineering

from Aarhus University

ENG, AU: Department of Engineering

from University of Southern Denmark

SDU-MAT: Dept. of Mathematics and Computer Science
 SDU-ITI: Dept. of Technology and Innovation

Aage, Niels	(MEK-FAM)	Researcher
Adesokan, Bolaji James	(COMPUTE)	PhD student
Alexandersen, Joe	(MEK-FAM)	PhD student
Ambat, Rajan	(MEK-MTU)	Associate Professor
Amini Afshar, Mostafa	(MEK-FVM)	PhD student
Andersen, Frederik Herland	(MEK-FVM)	PhD student
Andersen, Ingrid Marie Vincent	(MEK-FVM)	Head of center
Andersen, Jakob Axel Bejbro	(MEK-K&P)	PhD student
Andersen, Lars Vabbersgaard	(CIVIL, AAU)	Associate Professor, PhD
Andersen, Michael Skipper	(M-TECH, AAU)	Assistant Professor
Andersen, Morten Thøtt	(CIVIL, AAU)	PhD student
Andersen, Poul	(MEK-FVM)	Associate Professor
Andersen, Søren Juhl	(WIND)	Postdoc
Andreasen, Casper Schousboe	(MEK-FAM)	Associate Professor
Andreasen, Jens H.	(M-TECH, AAU)	Associate Professor
Andreasen, Jesper Graa	(MEK-TES)	Scientific Assistant
Andreasen, Mogens Myrup	(MEK-K&P)	Professor, Emeritus
Andreasen, Erik	(MEK-FAM)	PhD student
Andresen, Gorm	(ENG, AU)	Postdoc

Andrillo, Tito	(MEK-MPP)	PhD student
Arora, Vikas	(SDU-ITI)	Associate Professor
Azizi, Reza		Elected member, PhD
Back-Pedersen, Andreas		Elected member, PhD.
Bai, Shaoping	(M-TECH, AAU)	Assistant Professor
Bak, Brian Lau Verndal	(M-TECH, AAU)	Postdoc
Bakkedal, Morten	(MEK-MTU)	PhD student
Balci, Adnan	(COMPUTE)	PhD student
Balling, Ole	(ENG, AU)	Aff. Professor
Bang-Jensen, Jørgen	(SDU-MAT)	Professor
Barington, Alexander	(MEK-MTU)	PhD student
Barton, Janice	M-TECH, AAU	Professor
Baumbach, Jan	(SDU-MAT)	Associate Professor
Bay, Niels	(MEK-MPP)	Professor
Beelen, Peter	(COMPUTE)	Associate Professor
Bellemo, Lorenzo	(MEK-TES)	PhD student
Bendsøe, Martin		Elected member, Professor
Berggreen, Christian	(MEK-FAM)	Associate Professor
Biel, Anders	(WIND)	Postdoc
Bingham, Harry B.	(MEK-FVM)	Associate Professor
Bisacco, Giuliano	(MEK-MPP)	Assistant Professor, PhD
Bitsche, Robert	(WIND)	Researcher
Blasques, José Pedro	(WIND)	Postdoc
Boelskifte, Per	(MEK-K&P)	Professor
Bohr, Tomas		Elected member, Professor
Bordi, Kirill V.	(MEK-MTU)	Postdoc
Borg, Ulrik		Elected member, Senior Engineer
Bossolini, Elena	(COMPUTE)	PhD student
Bottoli, Federico	(MEK-MTU)	PhD student
Bræstrup, M. W.		Elected member, PhD.
Brander, David	(COMPUTE)	Associate Professor
Brandt, Anders	(SDU-ITI)	Associate Professor
Branner, Kim	(WIND)	Senior Researcher
Bräuner, Lars	(ENG, AU)	Associate Professor
Bredmose, Henrik	(WIND)	Associate Professor
Brincker, Rune	(ENG, AU)	Professor
Brink, Bastian	(MEK-MTU)	PhD student
Brohus, Henrik	(CIVIL, AAU)	Associate Professor, ph.d.
Brøndsted, Povl	(WIND)	Professor
Brøns, Morten	(COMPUTE)	Professor, PhD
Budzik, Michal	(ENG, AU)	Assistant Professor
Buhl, Thomas	(WIND)	Head of Section
Calaon, Matteo	(MEK-MPP)	Postdoc
Carlsen, Martin	(COMPUTE)	PhD student
Carstensen, Stefan	(MEK-FVM)	Associate Professor
Cederkvist, Jan		Elected member, PhD.
Cerullo, Michele	(MEK-FAM)	PhD student
Chapelle, Lucie	(WIND)	PhD student
Chen, Hao	(MEK-FVM)	PhD student
Chirandini, Marco	(SDU-MAT)	Associate Professor
Chivae, Hamid Sarlak	(WIND)	Postdoc
Christensen, Erik Damgaard	(MEK-FVM)	Professor, Head Section
Christensen, Georg Kronborg	(MEK-K&P)	Associate Professor
Christensen, Martin Ebro	(MEK-K&P)	PhD student
Christensen, Ole	(COMPUTE)	Professor, dr.scient.
Christiansen, Christian Kim	(MEK-FAM)	PhD student
Christiansen, Esben Toke	(M-TECH, AAU)	PhD student

Christiansen, Jesper De Claville	(M-TECH, AAU)	Professor
Christiansen, Peter	(MEK-MPP)	Researcher
Christiansen, Ramus Ellebæk	(MEK-FAM)	PhD student
Christiansen, Rune Juul	(MEK-MTU)	PhD student
Christiansen, Thomas	(MEK-MTU)	Senior Scientist
Clausen, Anders	(MEK-FAM)	PhD student
Clausen, Johan Christian	(CIVIL, AAU)	Assistant Professor
Clausen, Lasse Røngaard	(MEK-TES)	Assistant Professor
Comminal, Raphael	(MEK-MPP)	PhD student
Conseil, Helene	(MEK-MTU)	PhD student
Cordtz, Rasmus	(MEK-FM)	Postdoc
Costache, Andrei	(MEK-FAM)	PhD student
Couturier, Philippe	(MEK-FAM)	PhD student
D'Angelo, Greta	(MEK-MPP)	PhD student
Da Fonseca, Cesar Augusto Lampe Linhares	(MEK-FAM)	PhD student
Dag, Kaya Onur	(WIND)	PhD student
Dahl, Kristian Vinter	(MEK-MTU)	Senior Researcher
Dalen, Kristine Røste	(MEK-TES)	PhD student
Dalla, Guiseppa Costa	(MEK-MPP)	PhD student
Dam, Magnus	(COMPUTE)	PhD student
Damkilde, Lars	(CIVIL, AAU)	Professor
Dammann, Bernd	(COMPUTE)	Associate Professor
Danckert, Joachim	(M-TECH, AAU)	Professor
Davidsdóttir, Svava	(MEK-MTU)	PhD student
De Chiffre, Leonardo	(MEK-MPP)	Professor
Debertshäuser, Harald	(WIND)	PhD student
Debrabant, Kristian	(SDU-MAT)	Associate Professor
Della Morte, Michele	(SDU-MAT)	Associate Professor
Din, Rameez Ud	(MEK-MTU)	PhD student
Dou, Suguang	(MEK-FAM)	PhD student
Drozдов, Aleksey	(M-TECH, AAU)	Adjunct Professor
Eder, Martin Alexander	(WIND)	Researcher
Efler, Petr	(MEK-MTU)	Postdoc
Egelund, Arne Jørgensen	(MEK-TES)	Associate Professor
Elmegaard, Brian	(MEK-TES)	Associate Professor, Head of section
El-Naaman, Salim	(MEK-FAM)	PhD student
Endelt, Benny Ørtoft	(M-TECH, AAU)	Associate Professor
Enemark, Søren	(MEK-FAM)	PhD student
Engsig-Karup, Allan Peter	(COMPUTE)	Associate Professor
Eriksen, Rasmus Normann W.	(MEK-FAM)	Scientific Assistant
Eriksen, René Lyngø	(SDU-ITI)	Associate Professor
Evgrafov, Anton	(COMPUTE)	Associate Professor
Faber, Michael H.	(CIVIL)	Head of department
Fasano, Andrea	(MEK-MPP)	PhD student
Fedorov, Vladimir	(WIND)	Postdoc
Feng, Ju	(WIND)	Postdoc
Fernandes, Frederico Augusto	(MEK-MTU)	Postdoc
Frandsen, Niels Morten Marselv	(MEK-FAM)	PhD student
Fredsøe, Jørgen	(MEK-FVM)	Professor
Frier, Christian	(CIVIL, AAU)	Associate Professor, PhD
Fuhrman, David R.	(MEK-FVM)	Associate Professor
Gallego-Calderon, Juan	(WIND)	PhD student
Garcia, Néstor Ramos	(WIND)	Researcher
Georgakis, Christos	(CIVIL)	Associate Professor
Gervang, Bo	(ENG, AU)	Associate Professor
Giannekas, Nikolaos	(MEK-MPP)	Scientific Assistant

Glud, Jens Ammitzbøll	(M-TECH, AAU)	PhD student
Gogebeur, Yuri	(SDU-MAT)	Associate Professor
Goodsite, Michael Evan	(SDU-ITI)	Professor, Head of Department
Graeme, Keith		Elected member
Gravesen, Jens	(COMPUTE)	Associate Professor, dr.phil
Greiner, Martin	(ENG, AU)	Professor
Gudia, Visweswara	(MEK-MTU)	PhD student
Guerrier, Patrick	(MEK-MPP)	PhD student
Gunneskov, Ole		Elected member, PhD.
Guolaugsson, Tómas Vignir	(MEK-K&P)	Scientific Assistant
Haglund, Fredrik	(MEK-TES)	Associate Professor
Haider, Sajjad	(MEK-FM)	Researcher
Hald, John	(MEK-MTU)	Affiliated Professor
Halkjær, Søren		Elected member
Hansen, Claus Thorp	(MEK-K&P)	Associate Professor
Hansen, Hans Nørgaard	(MEK-MPP)	Professor, Head of Section
Hansen, John M.	(MEK-FAM)	Associate Professor
Hansen, Kurt Schaldemose	(WIND)	Senior Researcher
Hansen, Martin Otto Laver	(WIND)	Associate Professor
Hansen, Morten H.	(WIND)	Professor
Hansen, Per Chr.	(COMPUTE)	Professor, dr. techn.
Harthøj, Anders	(MEK-MTU)	Scientific Assistant
Haselbach, Philipp	(WIND)	PhD student
Hassing, Henrik		Elected member, PhD
Hattel, Jesper Henri	(MEK-MPP)	Professor
Hauksdóttir, Dagný	(MEK-K&P)	PhD student
Heilmann, Irene	(COMPUTE)	PhD student
Heinen, Frederik	(M-TECH, AAU)	PhD student
Henningensen, Casper Schytte	(MEK-FVM)	Scientific Assistant
Henriksen, Christian	(COMPUTE)	Associate Professor, PhD
Henriksen, Søren Randrup	(M-TECH, AAU)	PhD student
Hiller, Jochen	(MEK-MPP)	Postdoc
Hjorth, Poul	(COMPUTE)	Associate Professor, PhD
Høgh, Jacob Herold	(MEK-FAM)	Scientific Assistant
Høgsberg, Jan Becker	(MEK-FAM)	Associate Professor
Horsewell, Andy	(MEK-MTU)	Professor
Hougaard, Peter		Elected member, PhD
Howard, Thomas J.	(MEK-K&P)	Associate Professor
Hrgovan, Iva	(WIND)	PhD student
Huang, Fenix Wenda	(SDU-MAT)	Postdoc
Ibsen, Lars Bo	(CIVIL, AAU)	Professor, MSO, PhD
Ingvorsen, Kristian Mark	(MEK-FVM)	Postdoc.
Islam, Mohammad Aminul	(MEK-MPP)	Postdoc.
Ivarsson, Anders	(MEK-TES)	Associate Professor
Jabbarinehnam, Mirmasoud	(MEK-MPP)	Postdoc
Jacobsen, Christian Brix		Elected member, PhD.
Jacobsen, Henrik S.	(MEK-TES)	Scientific Assistant
Jakobsen, Johnny	(M-TECH, AAU)	Associate Professor
Jakobsen, Mads Sielemann	(COMPUTE)	PhD student
Janakiraman, Shravan	(MEK-FAM)	PhD student
Jellesen, Morten Stendahl	(MEK-MTU)	Senior Researcher
Jensen, Bjarne	(MEK-FVM)	PhD student
Jensen, Erik Appel	(M-TECH, AAU)	Associate Professor
Jensen, Henrik Myhre	(ENG, AU)	Professor
Jensen, Jacob Hjelmager	(MEK-FVM)	Associate Professor
Jensen, Jonas Kjær	(MEK-TES)	PhD student
Jensen, Jørgen Juncher	(MEK-FVM)	Professor, dr. techn.

Jensen, Karsten Lindegård	(MEK-FVM)	PhD student
Jensen, Lars Rosgaard	(M-TECH, AAU)	Associate Professor
Jespersen, Freja Nygaard	(MEK-MTU)	PhD student
Jespersen, Kirstine Munk	(WIND)	PhD student
Johannesson, Björn	(CIVIL)	Associate Professor
Johansen, Villads Egede	(MEK-FAM)	PhD student
Johansson, Jens	(SDU-ITI)	Assistant Professor
Jönsson, Jeppe	(CIVIL)	Professor
Jørgensen, Jeppe Bjørn	(WIND)	PhD student
Jørgensen, John Bagterp	(COMPUTE)	Assistant Professor
Jørgensen, Mads Carsten	(MEK-TES)	Scientific Assistant
Jørgensen, Martin Heide	(M-TECH, AAU)	Head of Department
Juul, Nicolai Ytterdal	(MEK-MTU)	PhD student
Kærn, Martin Ryhl	(MEK-TES)	Researcher
Karamehmedovic, Mirza	(COMPUTE)	Associate Professor
Karatzas, Vasileios	(MEK-FAM)	Scientific Assistant
Kepler, Jørgen Asbøl	(M-TECH, AAU)	Associate Professor
Kermani, Nasrin Arjomand	(MEK-TES)	PhD student
Kiamehr, Saeed	(MEK-MTU)	PhD student
Kimiaiefar, Amin	(M-TECH, AAU)	PhD student
Kjartansdóttir, Cecilia	(MEK-MTU)	Postdoc
Klit, Peder	(MEK-FAM)	Professor, PhD
Knudsen, Kim	(COMPUTE)	Associate professor
Knudsen, Lars Ramkilde	(COMPUTE)	Professor
Knudsen, Thomas S.		Elected member, PhD.
Kolmogorov, Dmitry	(WIND)	Postdoc
Kontos, Stavros	(MEK-FVM)	PhD student
Koss, Holger	(CIVIL)	Associate Professor
Krenk, Steen	(MEK-FAM)	Professor
Kristensen, Anders Schmidt	(CIVIL, AAU)	Associate Professor
Kristiansen, Ewa	(M-TECH, AAU)	Assistant Professor
Kristiansen, Kristian Uldall	(COMPUTE)	Postdoc
Kristiansen, Morten Fogtmann	(WIND)	PhD student
Labanda, Susana Rojas	(WIND)	PhD student
Laier-Brodersen, Mark	(MEK-FAM)	PhD student
Larsen, Jan Balle		Elected member, PhD.
Larsen, Jon Steffen	(MEK-FAM)	PhD student
Larsen, Poul Scheel	(MEK-FVM)	Professor Emeritus
Larsen, Raino Mikael	(M-TECH, AAU)	Associate Professor
Larsen, Ulrik	(MEK-TES)	PhD student
Lauridsen, Jonas	(MEK-FAM)	PhD student
Lazarov, Boyan Stefanov	(MEK-FAM)	Senior Researcher
Lee, Seunghwan	(MEK-MTU)	Associate Professor
Legarth, Brian N.	(MEK-FAM)	Associate Professor, PhD
Lemvig, Jakob	(COMPUTE)	Assistant Professor
Lenau, Torben Anker	(MEK-K&P)	Associate Professor
Li, Shizhao	(MEK-MPP)	Scientific Assistant
Lilholt, Hans	(WIND)	Chief Scientist
Lindgaard, Esben	(M-TECH, AAU)	Assistant Professor
Lind-Nielsen, Birger		Elected member, PhD.
Løkkegaard, Martin	(MEK-K&P)	PhD student
Lopez, Angel Alfonso	(MEK-MTU)	PhD student
Lund, Erik	(M-TECH, AAU)	Professor, PhD
Lund, Ivar	(SDU-ITI)	Associate Professor
Lund, Morten Enemark	(M-TECH, AAU)	PhD student
Lützen, Marie	(SDU-ITI)	Associate Professor
Lythcke-Jørgensen, Christoffer	(MEK-TES)	PhD student

Madsen, Bo	(WIND)	Senior Scientist
Madsen, Jan Busk	(MEK-MTU)	PhD student
Madsen, Per A.	(MEK-FVM)	Professor
Madsen, Søren Peder	(ENG, AU)	Associate Professor
Mahshid, Rasoul	(MEK-MPP)	PhD student
Manca, Marcello	(MEK-FAM)	PhD student
Manouchehr, Mehrtash	(MEK-FAM)	Scientific Assistant
Margalit, Jonatan	(MEK-FVM)	PhD student
Marhöfer, David Maximilian	(MEK-MPP)	PhD student
Markussen, Wiebke Brix	(MEK-TES)	Assistant Professor
Markvorsen, Steen	(COMPUTE)	Professor, dr. techn.
Marschler, Christian	(COMPUTE)	PhD student
Martakos, Georgios	(M-TECH, AAU)	PhD student
Mazzucco, Andrea	(MEK-TES)	PhD student
McAloon, Tim C.	(MEK-K&P)	Associate Professor
Melro, Liliana Sofia da Silva Ferreira Pinto	(M-TECH, AAU)	PhD student
Menotti, Stefano	(MEK-MPP)	PhD student
Meyer, Knud Erik	(MEK-FVM)	Associate Professor
Mikkelsen, Lars Pilgaard	(WIND)	Associate Professor
Mikkelsen, Robert Flemming	(WIND)	Senior Researcher
Mischkot, Michael	(MEK-MPP)	PhD student
Mishnaevsky, Leon	(WIND)	Senior Scientist
Modi, Anish	(MEK-TES)	PhD student
Mohaghegh, Kamran	(MEK-MPP)	Postdoc
Mohanty, Sankhya	(MEK-MPP)	PhD student
Møller, Per	(MEK-MTU)	Professor
Møller-Andersen, Jakob	(COMPUTE)	PhD student
Montgomery, Melanie	(MEK-MTU)	Senior Researcher
Morsbøl, Jonas	(M-TECH, AAU)	PhD student
Mortensen, Niels Henrik	(MEK-K&P)	Professor, Head of the section
Natarajan, Anand	(WIND)	Senior Researcher
Nellemann, Christopher	(MEK-FAM)	PhD student
Neugebauer, Line Maria	(MEK-K&P)	PhD student
Neumeyer, Stefan	(MEK-FAM)	PhD student
Nguyen, Nhut	(COMPUTE)	PhD student
Nguyen, Tuong-Van	(MEK-TES)	PhD student
Nielsen, Bo Bjerregaard	(MEK-FAM)	PhD student
Nielsen, Chris Valentin	(MEK-MPP)	Postdoc
Nielsen, Claus Suldrup	(MEK-FM)	Scientific Assistant
Nielsen, Izabela Ewa	(M-TECH, AAU)	Associate Professor
Nielsen, Jens Henrik	(CIVIL)	Assistant Professor
Nielsen, Karl Brian	(M-TECH, AAU)	Professor
Nielsen, Kim Lau	(MEK-FAM)	Associate Professor
Nielsen, Leif Otto	(CIVIL)	Associate Prof. Emeritus
Nielsen, Martin Bjerre	(MEK-FAM)	Assistant Professor
Nielsen, Niels-Jørgen Rishøj		Elected member, PhD.
Nielsen, Peter Søb	(MEK-MPP)	PhD student
Nielsen, Rasmus Bruus	(M-TECH, AAU)	PhD student
Nielsen, Søren R.K.	(CIVIL, AAU)	Professor, dr.techn.
Nielsen, Ulrik Dam	(MEK-FVM)	Assistant Professor
Niordson, Christian	(MEK-FAM)	Associate Professor, PhD
Nørbjerg, Toke Bjerge	(COMPUTE)	PhD student
Nørgaard, Sebastian Arlund	(MEK-FAM)	PhD student
Nørtoft, Peter	(COMPUTE)	Assistant Professor
Nygaard, Jens Vinge	(ENG, AU)	Head of Mechanical Engineering
O'Hare, Jamie Alexander	(MEK-K&P)	Postdoc

Oest, Jacob	(M-TECH, AAU)	PhD student
Okoro, Sunday Chukwudi	(MEK-MTU)	PhD student
Okulov, Valery	(WIND)	Senior Researcher
Olafsson, Olafur Magnus	(MEK-FAM)	Scientific Assistant
Olesen, Christian Gammelgaard	(M-TECH, AAU)	Associate Professor
Olesen, John Forbes	(CIVIL)	Associate Professor
Olhoff, Niels	(M-TECH, AAU)	Professor Emeritus, dr.techn.
Omidvarnia, Farzaneh	(MEK-MPP)	PhD student
Ommen, Torben Schmidt	(MEK-TES)	PhD student
Orlowitz, Esben	(SDU-ITI)	PhD student
Ormarsson, Sigurdur	(CIVIL)	Associate Professor
Oshkovr, Simin A.	(M-TECH, AAU)	PhD student
Overgaard, Lars Chr. Terndrup	(M-TECH, AAU)	Associate Professor
Øye, Stig	(WIND)	Senior Researcher
Ózkil, Ali Gürcan	(MEK-K&P)	Assistant Professor
Pagoropoulos, Aris	(MEK-K&P)	Postdoc
Pang, Kar Mun	(MEK-TES)	Postdoc
Pantleon, Karen	(MEK-MTU)	Associate Professor
Pantleon, Wolfgang	(MEK-MTU)	Associate Professor
Pedersen, David Bue	(MEK-MPP)	Researcher
Pedersen, Michael	(COMPUTE)	Professor
Pedersen, Niels L.	(MEK-FAM)	Associate Professor, dr.techn.
Pedersen, Pauli	(MEK-FAM)	Professor Emeritus, dr.techn.
Pedersen, Preben Terndrup	(MEK-FVM)	Professor Emeritus
Pedersen, Thomas Ørts		Elected member, PhD.
Pereira, Gilmar Ferreira	(WIND)	PhD student
Petersen, Helga Nørgaard	(WIND)	PhD student
Petersen, Henrik Gordon		Elected member, Professor
Petersen, Thomas		Elected member, PhD
Petkov, Kiril	(MEK-MPP)	PhD student
Pica, Claudio	(SDU-MAT)	Professor mso.
Pierobon, Leonardo	(MEK-TES)	PhD student
Pigossi, Daniela Cristina Antelmi	(MEK-K&P)	Postdoc
Pilný, Lukás	(MEK-MPP)	PhD student
Piotrowska, Kamila	(MEK-MTU)	Scientific Assistant
Poulios, Konstantinos	(MEK-FAM)	Postdoc
Poulsen, Peter Noe	(CIVIL)	Associate Professor
Pyrz, Ryszard	(M-TECH, AAU)	Professor
Quagliotti, Danilo	(MEK-MPP)	PhD student
Rasmussen, Henrik K.	(MEK-MPP)	Associate Professor
Rasmussen, John	(M-TECH, AAU)	Professor
Rauhe, Jens Christian M	(M-TECH, AAU)	Associate Professor
Ravendran, Rathesan	(M-TECH, AAU)	PhD student
Ravn, Poul Martin	(MEK-K&P)	Scientific Assistant
Ravn-Jensen, Kim		Elected members, PhD.
Read, Robert	(MEK-FVM)	Postdoc
Reboucas, Geraldo	(MEK-FAM)	PhD student
Reck, Mads		Elect. Mem., CFD Specialist – aerodyn.
Redanz, Pia		Elected member, Senior Engineer
Regener, Pelle Bo	(MEK-FVM)	PhD student
Reidys, Christian	(SDU-MAT)	Professor
Richelsen, Ann Bettina	(MEK-FAM)	Professor, PhD
Røgen, Peter	(COMPUTE)	Associate Professor
Rogowska, Magdalena	(MEK-MTU)	PhD student
Rokni, Masoud	(MEK-TES)	Associate Professor
Røn, Troels	(MEK-MTU)	PhD student
Rootzén, Helle	(COMPUTE)	Professor, Head of Department

Rosbjerg, Dan		Elected members, Professor
Salazar, Jorge A. González	(MEK-FAM)	PhD student
Sanporean, Catalina-Gabriela	(M-TECH, AAU)	Postdoc
Santillán, Arturo Orozco	(SDU-ITI)	Associate Professor
Santos, Ilmar F.	(MEK-FAM)	Professor, Dr.-Ing.
Saseendran, Vishnu	(MEK-FAM)	Scientific Assistant
Schilder, Frank	(COMPUTE)	Assistant Professor, dr.phil.
Schjødt-Thomsen, Jan	(M-TECH, AAU)	Associate Professor
Schløer, Signe	(WIND)	Postdoc
Schmiegel, Jürgen	(ENG, AU)	Associate Professor
Schramm, Jesper	(MEK-TES)	Associate Professor
Schroll, Achim	(SDU-MAT)	Professor, dr.sc. Math.
Seng, Sopheak	(MEK-FVM)	Postdoc
Sessarego, Matias	(WIND)	PhD student
Shen, Wen Zhong	(WIND)	Professor
Sigmund, Ole	(MEK-FAM)	Professor, dr.techn., Head of section
Sigurjonsson, Hafthor Ægir	(MEK-TES)	PhD student
Sivebæk, Ion Marius	(MEK-MPP)	Associate Professor
Somers, Marcel A. J.	(MEK-MTU)	Professor, Head of section
Sonne, Mads Rostgaard	(MEK-MPP)	PhD student
Sørensen, Bent	(WIND)	Head of Section, Professor
Sørensen, Claus Aage Grøn	(ENG, AU)	Senior Researcher
Sørensen, Jens Nørkær	(WIND)	Professor
Sørensen, John Dalsgaard	(CIVIL, AAU)	Professor, ph.d.
Sørensen, Mads Peter	(COMPUTE)	Associate Professor
Sørensen, Niels Jakob		Elected member, PhD
Sørensen, René	(M-TECH, AAU)	PhD student
Sørensen, Søren Nørgaard	(M-TECH, AAU)	PhD student
Sorokin, Sergey	(M-TECH, AAU)	Professor, PhD
Sorokin, Vladislav	(MEK-FAM)	Postdoc
Stang, Henrik	(CIVIL)	Vice director, Professor
Starke, Jens	(COMPUTE)	Associate Professor
Steenstrup, Kasper Hornbak	(COMPUTE)	PhD student
Sterndorff, Martin J.		Elected member, PhD.
Stolfi, Alessandro	(MEK-MPP)	PhD student
Stolpe, Mathias	(WIND)	Senior Researcher, dr.techn.
Sumer, B. Mutlu	(MEK-FVM)	Professor
Svensson, Eilif		Elected member, Manager
Taher, Siavash Talebi	(M-TECH, AAU)	Postdoc
Thoft-Christensen, Palle	(CIVIL, AAU)	Emeritus Professor, ph.d.
Thomassen, Carsten	(COMPUTE)	Professor
Thompson, Mary Kathryn	(MEK-K&P)	Associate Professor
Thomsen, Jon Juel	(MEK-FAM)	Associate Professor, dr.techn.
Thomsen, Ole Thybo	(M-TECH, AAU)	Professor
Thöns, Sebastian	(CIVIL)	Associate Professor
Thorborg, Jesper	(MEK-MPP)	Assistant Professor
Tiedje, Niels Skat	(MEK-MPP)	Associate Professor
Toft, Henrik Stensgaard	(CIVIL, AAU)	Assistant Professor
Toftegaard, Helmuth L.	(WIND)	Senior Scientist
Tosello, Guido	(MEK-MPP)	Assistant Professor
Tvergaard, Viggo	(MEK-FAM)	Professor Emeritus, dr.techn.
Valvo, Paolo Sebastiano	(WIND)	Postdoc
Varela, Alejandro Cerda	(MEK-FAM)	Postdoc
Vásquez, Fabian G. Pierart	(MEK-FAM)	PhD student
Vedel-Smith, Nikolaj Kjelgaard	(MEK-MPP)	Scientific Assistant
Velte, Clara	(MEK-FVM)	Associate Professor
Verdingovas, Vadimas	(MEK-MTU)	PhD student

Villa, Matteo	(MEK-MTU)	PhD student
Voigt, Andreas Jauernik	(MEK-FAM)	PhD student
Walther, Jens Honore	(MEK-FVM)	Professor MSO
Wang, Fengwen	(MEK-FAM)	Researcher
Weldeyesus, Alemseged G.	(WIND)	Postdoc
West, Ole	(MEK-MTU)	Scientific Assistant
Westlye, Frederik Ree	(MEK-TES)	PhD student
Wiggers, Sine Leergaard	(SDU-ITI)	Associate Professor
Winther, Grethe	(MEK-MTU)	Associate Professor, dr.techn.
Wöhner, Timo	(MEK-MPP)	PhD student
Wronski, Jorrit	(MEK-TES)	PhD student
Zadeh, Maziyar Nesari	(M-TECH, AAU)	Postdoc
Zhang, Xuping	(ENG, AU)	Assistant Professor
Zhang, Yang	(MEK-MPP)	Researcher
Zhang, Zili	(CIVIL, AAU)	PhD student
Zhou, Mingdong	(MEK-FAM)	Postdoc
Zhu, Wei Jun	(WIND)	Senior Researcher
Zike, Sanita	(WIND)	PhD student

