

FOREWORD

This annual report about the year 2006 contains information on publications, seminars and guests.

The report serves mainly as reference and documentation for accomplished activities. Information on the actual activities as well as lists of older DCAMM reports and DCAMM S-reports are available on our homepage: www.dcammm.dk and on the homepages of the cooperating departments of the center.

The members are reminded that the orange DCAMM reports that earlier have been sent out to members have been substituted by electronic reports that can be downloaded by members of DCAMM from the DCAMM web-site www.dcammm.dk. The annual report will still be mailed in a paper version.

The DCAMM Research School is a Research School that lives up to the national standards set up by Forskeruddannelsesudvalget (FUU) under the Ministry of Science, Technology and Innovation. As of Jan. 1, 2006, Around 60 Ph.D. students are attached to the School. The School organized seven special, intensive courses in 2006, in addition to the standard courses given in the normal semester system for teaching at DTU and AAU. For the next 5 years a high level of activities will be possible as the School in 2006 was fortunate to be able to obtain substantial funding from FUU for course activities and scholarship programmes for visiting students and postdocs. The Scholl also secured a number of special fellowships for full Ph.D. projects from FUU, including international fellowships which will be carried out in close collaboration with foreign universities. Details on the activities of the school and on courses for 2007 can also be found on the DCAMM website.

In 2006, DCAMM also initiated a new concept named the “DCAMM Annual Speaker”. This consists in inviting a leading international researcher to give a number of lectures at the Technical University of Denmark and at Aalborg University, both to disseminate mechanics to a broader audience as well as to give more specialist presentation for Ph.D. students. In 2006, Professor Hassan Aref kindly agreed to serve the role as our first DCAMM Annual Speaker, and we were pleased to see that the initiative was backed by a big and lively audience at the lectures which were given late in the year

As of Jan. 1, 2007, the departments cooperating within DCAMM are:
from **Technical University of Denmark:**

IMM: Dept. of Informatics and Mathematical Modelling
MAT: Dept. of Mathematics
MEK-ET: Dept. of Mechanical Engineering, Energy Engineering
MEK-FM: Dept. of Mechanical Engineering, Fluid Mechanics
MEK-FAM: Dept. of Mechanical Engineering, Solid Mechanics
MEK-SKK: Dept. of Mechanical Engineering, Maritime Engineering

from **Aalborg University:**

IBA-AAU: Department of Civil Engineering
IME-AAU: Institute of Mechanical Engineering

I thank our international contacts for their support and inspirations.

Ole Sigmund

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Appendix: List of members

1. MEMBERS 2006

professors
 scientific members at the five cooperating departments at the Center
 Ph.D.-students

38 elected members
 12 foreign members (listed in section 2)

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

2. FOREIGN MEMBERS

Professor Hassan Aref
College of engineering & Reynolds Metals
Virginia Polytechnic Institute and State University
College of Engineering, 333 Norris Hall
Blacksburg, VA 24061
USA

Professor G.I. Barenblatt
 Inst. of Oceanology
 USSR Academy of Sciences
 23, Ul. Kzasikova
 117218 Moscow
 Russia

Professor John P. Breslin, Dr. Sc.
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 03193 San Miguel de Salinas, (Alicante)
 Spain

Professor Germund Dahlquist
Kungliga Tekniska Högskolan
Stockholm
Sweden

Professor John W. Hutchinson
 Division of Engineering and Applied Sciences
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 USA

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

Professor Michael S. Longuet-Higgins
Dept. of Applied Mathematics and Theor. Physics
University of Cambridge
Cambridge
United Kingdom

Professor Ole Secher Madsen
Ralph M. Parsons Lab., Dept. of civil Eng.
Massachusetts Institute of Technology
Cambridge, MA 02139
USA

Professor Alan Needleman
Division of Engineering, Box D
Brown University
Providence, RI 02912
USA

Professor S. Nemat-Nasser
Department of Applied Mechanics
University of California in San Diego
La Jolla, CA 92093, 0416
USA

Professor D.H. Peregrine
Applied Mathematics
University of Bristol
University Walk
Bristol BS8 1TW
UK

Professor Bertil Storåkers
Department of Solid Mechanics
Kungliga Tekniska Högskolan
S-100 44 Stockholm
Sweden

Professor I.A. Svendsen
Dept. of Civil Engineering
University of Delaware
Neward, DE 19716
USA

3. GUESTS FOR EXTENDED PERIODS IN 2006

Asghar Rahimi, Tabriz University, Iran. (January 1 – May 31)

Roza Aceska, University of Macedonia. (June 2 – 28)

Iliya I. Blekhman, Professor, Dr.Sci., Inst. of Problems of Mechanical Engineering, Russian Academy of Sciences, and Mekhanobr-Tekhnika Corp., St. Petersburg. (June 14 – 18)

Alexander Fidlin, Dr.-Ing. Habil., Manager LuK GmbH & co. Simulation & Analysis Dept., Germany, and Privat Dozent, University of Karlsruhe. (June 14 – 25)

Alberto Donoso, Universidad de Castilla La Mancha, Spain. (February 1 -

Walter Frei, University of Illinois at Urbana-Champaign, USA. (November 1 – December 31)

Olga Ershova, Associate Professor of Department of Applied Mechanics, State Marine Technical University of St. Petersburg. (January 29 – February 18 and November 1 – 12)

Wolfgang Achtziger, professor, Universität Dortmund, Lehrstuhl X, Dortmund, Tyskland. (March 15 - June 15)

Bruggi, Matteo, Ph.D. student, University of Pavia, Italien (funded by Villum Kann Rasmussen fonden). (February 15 – April 15)

Figen Hatipoglu, Assistant Professor. Istanbul Technical University, Turkey.

Abdul Karim Barbhuiya, Dr., National Institute of Technology, Applied Mechanics Department, Silchar, India.

A.H.S.H. Barbhuiya, Professor, National Institute of Technology, Applied Mechanics Department, Silchar, India.

Atsushi Kawamoto, Senior researcher, TOYOTA CRDL, Japan. (May 17 – 22 and August 24 - September 9 and November 16 – 29)

Jan Rübel, University of Heidelberg, Tyskland. (April 17 - May 14)

Mats Werme, Optimization & Systems Theory, Department of Mathematics, KTH, Stockholm. (February 20 - March 11)

Atsushi Suzuki, Toyota Central Research and Development Laboratories, Inc., Nagakute-cho, Japan. (September 1-30 and November 1-30)

4A. SCIENTIFIC PUBLICATIONS IN PROCEEDINGS IN 2006

Bræstrup, M.W.: Plastic Analysis and Design of Structural Concrete. Second International *fib* Congress, Napoli 5 – 8 June 2006, Proceedings Vol 1 pp 490 – 491 + CD-ROM 12 pp. 2006.

Brøns, M., Krupa, M. & Wechselberger, M.: Mixed Mode Oscillations due to the Generalized Canard Phenomenon. In Bifurcation Theory and Spatio-Temporal Pattern Formation (Editor: Nagata, W.), American Mathematical Society, pp. 39-64, 2006

Christensen, O.: Frames and generalized shift-invariant systems. In “Operator Theory: Advances and Applications, Vol. 164, pp 193-209”. (Proceedings of conference in Växjö, June 22-25 2004). Birkhauser 2006.

Christensen, O.: Frames and their duals. Proceedings of the Annual Meeting, pp 149-154, Korean Society for Applied and Industrial Mathematics, Daegu, Korea, May 26-27 2006.

Christensen, O.: Frames and multiresolution analysis. Invited paper, page 73-106 in “Mathematical models & methods for Real World Problems”, eds. K.M. Furati, Zuhair Nashed, A.H. Siddiqi. CRC Chapman & Hall/CRC, 2006.

Casazza, P., Christensen, O., Shidong, L. & Alexander, L.: Density results for frames of exponentials. In “Harmonic Analysis and Applications”, eds. C.Heil Birkhauser, 2006.

Krabbenhof, S., Clausen, J. & Damkilde, L.: Tension test on bored piles in sand. In Proceedings of International Symposium on Ultimate Limit States of Geotechnical Structures, ELU-ULS 2006, Paris, France, pp. 8, 2006.

Clausen, J. & Damkilde, L.: Slope safety factor calculations with non-linear yield criteria using finite elements. In Numerical Methods in Geotechnical Engineering, Graz, Austria, September, pp. 491-496, 2006.

Astrup, T., Damkilde, L., Hergenröder, B. & Berglund, L.: Analysis of Glulam subjected to Compression Perpendicular to Grain - An experimental and Numerical Study. In Proceedings of International Conference on Integrated Approach to Wood Structure, Behaviour and Applications, Firenze, Italy, pp. 32-37, 2006.

Frandsen, H.L., Svensson, S. & Damkilde, L.: A new Model for Hysteresis applicable for Finite Element Simulations of Moisture Transport in Wood. In Proceedings of International Conference on Integrated Approach to Wood Structure, Behaviour and Applications, Firenze, Italy, pp. 195-200, 2006.

Pedersen, C.G., Lund, J.J., Damkilde, L. & Kristensen, A.S.: Topology optimization - Improved checker-board filtering with sharp contours. In Proceedings of 19th Nordic Seminar on Computational mechanics", pp. 4, 2006.

Frandsen, H.L. & Damkilde, L.: A sorption hysteresis model for cellulosic materials. In Proceedings of 19th Nordic Seminar on Computational mechanics", pp. 4, 2006.

Clausen, J. & Damkilde, L.: A simple and efficient FEM-implementation of the Modified Mohr-Coulomb criterion. In Proceedings of 19th Nordic Seminar on Computational mechanics", pp. 6, 2006.

Ditlevsen, O.: SORM applied to hierarchical parallel system. 12th IFIP WG 7.5 Working Conference on Reliability and Optimization of Structural Systems. Aalborg, Denmark, May 22-25, 2005. In Advances in Reliability and Optimization of Structural Systems (eds.: John D. Sørensen and Dan M. Frangopol), ISBN 0415399017, Taylor & Francis/Balkema, pp. 101-106, 2006.

Ebbesen, M.K., Hansen, M.R. & Pedersen, N.L.: Design Optimization of Conveyor Systems. Proceedings of: III European Conferences on Computational Mechanics, Lisboa, Portugal, June 5-9 2006 (cd-rom)pages: 1-12, Springer, P.O. Box 17, 3300 AA Dordrecht, The Netherlands, 2006.

Ebbesen, M.K., Andersen, T.O. & Hansen, M.R.: Optimal Control of Hydraulically Actuated Flexible Multibody Systems. Proceedings of 2nd International Conference on Computational Methods in Fluid Power (FPNI'06), Aalborg, Denmark, August 2-3 2006.

Ebbesen, M.K., Andersen, T.O. & Hansen, M.R.: Optimal Tool Point Control of Hydraulically Actuated Flexible Multibody System with an Operator-in-the-loop. Proceedings of European Conference on Computational Mechanics (ECCM-2006), Lisboa, Portugal, June 5-9 2006.

Fan, Z., Detlef, M., Andreasen, M.M. & Hein, L.: Teaching System Integration of Mechatronic Systems, International Design Conference - DESIGN 2006, Dubrovnik - Croatia, May 15 - 18, 2006.

González D., Fan Z., Sørensen T., & Fernández, I.: Embedded Face Recognition for Mechatronic Devices. The 7th International Workshop on Research and Education in Mechatronics (REM), Stockholm, June 15th - June 16th 2006.

Fernández, I., Fan Z., Sørensen T., & González D.: On the Implementation of New Technologies for Embedded Hybrid Control. The 7th International Workshop on Research and Education in Mechatronics (REM), Stockholm, June 15th - June 16th 2006.

P. Wang, Fan, Z. & Li, Y.: Dynamic Integration of Modular Neural Network's Sub-networks. International conference on sensing, computing and automation, ICSCA, Chongqing, China, 2006.

Zhu, S., Boelskifte, P. & Fan, Z.: A Fuzzy Approach For Feature-Based Product Style Recognition. Proceedings 5th International Conference on e-Engineering & Digital Enterprise Technology, e-ENGDET 2006.

Conrad, F., Fan, Z. & Sørensen, T.: Simulation and Embedded Smart Control. Part of: International Conference on Computational Methods in Fluid Power Technology (ISBN: 87-89206-99-1), pages: E 1- 14, 2006.

Guzman-Verri, G.G., Voon, L.C.L.Y., Willatzen, M. & Gravesen, J.: Electronic structure of helically coiled carbon nanotubes. In: Material Research Society Proceedings, 901E, pp. 2006.

Hansen, M.R.: See Ebbesen, M.K.

Hansen, V.L.: Good conduct the sciences. Proceedings of the International RILEM Conference on Volume Changes hardening Concrete: Testing and Mitigation, RILEM Publications S.A.R.L., Bagnaux, France, pp. 1-10, 2006.

Hansen, V.L.: God Adfærd i Videnskaberne. Årsberetning 2005 Udvalgene Vedrørende Videnskabelig Uredelighed, Forsknings- og Innovationsstyrelsen, Copenhagen, pp. 19-34, 2006.

Hansen, V.L.: Good Conduct the Sciences. Annual Report 2005 The Danish Committees on Scientific Dishonesty, Danish Agency for Science, Technology and Innovation, Copenhagen, pp. 19-34, 2006.

Hjorth, P.G., Krarup, J., Rasmussen, S. & Aagaard, L.: "Output from the Greenwood Traffic Speed Deflectometer. In: Proceedings of the 2nd ARRB Group Conference, Canberra, Australia, 29 October - 2 November 2006.

Høgsberg, J.R. & Krenk, S.: Energy Dissipation Control of Hysteretic Dampers, 5th computational stochastic mechanics conference, Rhodes Island, Greece, June 21-23, 2006.

Høgsberg, J.R.: See Krenk, S.

Jensen, J. S.: Efficient Optimization of Dynamic Systems Using Padé Approximants. In proceedings (CD-ROM) of 3rd European Conference on Computational Solids and Structural Mechanics ECCM-2006. C. M. Mota Soares et al. (ed.), June 5–8, 2006, Lisbon, Portugal. 9 pages, 2006.

Jensen, J. S. & Sigmund, O.: Topology optimization of wave-propagation problems. Topological Design Optimization of Structures, Machines and Materials. Rungstedgaard, Copenhagen, Denmark, October 26-29 2005. In: IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials : Status and Perspectives, pp. 387-390 / Editor: Bendsøe, Martin P. , Olhoff, Niels , Sigmund, Ole-Dordrecht, The Netherlands : Springer, 2006.

Frandsen, L. H., Borel, P. I., Jensen, J. S. & Sigmund, O.: Topology Optimized Photonic Wire Splitters. Conference on Lasers and Electro-Optics. Long Beach, CA, USA, May 21-26 2006 paperid : CMV4. In: CLEO/QELS 2006 Technical Digest CD-Rom, 2006.

Borel, P. I., Frandsen, L. H., Fage-Pedersen, J., Lavrinenko, A., Olsen, B. B., Nielsen, T., Kristensen, A., Jensen, J. S. & Sigmund, O.: Optical characterisation of photonic wire and photonic crystal waveguides fabricated using nanoimprint lithography. Presented at: ECOC. September 24-28 2006, Cannes, France, paperid : We1.2.4. In: Proceedings European Conference on Optical Communication, CD-ROM ECOC, 2006.

Sugimoto, Y., Watanabe, Y., Ikeda, N., Ozaki, N., Mizutani, A., Takata, Y., Jensen, J. S., Sigmund, O., Borel, P. I., Kristensen, M., Ishikawa, H. & Asakawa, K.: Topology Optimization for Photonic Crystal Waveguide Intersection with Wide and Flat Bandwidths in Ultra-Fast All-Optical Switch (PC-SMZ). Presented at: European Conference on Optical Communication. Cannes, France, 2006 : We1.2.5. In: Proceedings European Conference on Optical Communication, 2006.

Jensen, J.S.: See Yoon, G.H.

Krenk, S.: Global formulation of conservative time integration by increment of the geometric stiffness. Proceedings of the III European Conference on Computational Mechanics, Lisbon, June 5-8. Eds. C.A.M. Soares et al. Springer, CD-ROM, 2006.

Krenk, S. & Høgsberg, J.R.: Design of Multiple Tuned Mass Dampers on Flexible Structures. Proceedings of the 19th Nordic Seminar on Computational Mechanics, pp. 103-106, Lund, Sweden, 2006.

Madsen, H.O., Krenk, S. & Lind, N.C.: Methods of Structural Safety, 2nd Edition, Dover, 2006.

Krenk, S.: See Høgsberg, J.R.

Niordson, C.F.: Void growth on the micron scale. Presented at: Void growth on the micron scale. Halifax, Canada, 2006. In: Proceedings of 'The 12th International Symposium on Plasticity & Its Current Applications, pp. 661-663 ; Kazmi, R.-USA : Neat Press, 2006.

Olhoff, N. & Du, J.: Topology Optimization of Vibrating Bi-material Structures with Respect to Sound Radiation. In: Proc. IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials - Status and Perspectives. ISBN-10-1-4020-4729-0, eds. M.P. Bendsøe, N. Olhoff and O. Sigmund, 26-29 October, 2005, Copenhagen, Denmark. Springer-Verlag, Dordrecht, The Netherlands, pp. 43-52, 2006.

Olhoff, N. & Du, J.: Topological Design for Minimum Sound Radiation from Structures Subjected to Forced Vibration. In: Proc. Third European Conference on Computational Mechanics (ECCM III). ISBN-10-1-4020-4994-3 (CD), eds. C.A. Mota Soares, J.A.C. Martins, H.C. Rodrigues and J.A.C. Ambrosio, 5-8 June, 2006, Lisbon, Portugal, 14 pp., 2006.

Olhoff, N. & Du, J.: Structural Topology Design Optimization Against Vibration and Noise. Lecture Notes for the Advanced School in Computational Aspects of Structural

Acoustics and Vibration, 19-23 June, 2006, International Centre for Mechanical Sciences (CISM), Udine, Italy, 57 pp., 2006.

Olhoff, N. & Du, J.: Topology Optimization of Structures with Respect to Dynamic and Noise Emission Objectives (Invited Keynote Lecture). In: Engineering Design Optimization – Product and Process Improvement, Proc. 6th ASMO-UK / ISSMO Conference. ISBN-0-85316-251-4, eds. J. Sienz, O.M. Querin, V.V. Toropov and P.D. Gosling, 3-4 July, 2006, Oxford, UK, pp. 58-105, 2006.

Olhoff, N. & Du, J.: Overview of Problems of Structural Topology Optimization Against Vibration and Noise. In: Proc. 6th European Solid Mechanics Conference (ESMC 2006), 28 August – 1 September, 2006, Budapest, Hungary, 2 pp., 2006.

Langthjem, M. & Olhoff, N.: Optimum Design of a Resonating Fluid-loaded Beam. In: Proc. Annual Congress of Japan Society of Mechanical Engineers (JSME), 18-22 September, 2006, Kyushu, Japan, 2 pp., 2006.

Olhoff, N. & Du, J.: Topological Design Optimization of Vibrating Structures (Invited General Lecture). In: Proc. Fourth China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM 4), eds. G.D. Cheng, S.T. Liu and X. Guo, 6-9 November, 2006, Kunming, China, pp. 509-514, 2006.

Pedersen, N.L.: On Shape, Material and Orientational Design of Plates in Relation to Dynamics. part of: III European Conference on Computational Mechanics(cd-rom)pages: 1-8, Springer, P.O. Box 17, 330 AA Dordrecht, The Netherlands, 2006.

Pedersen, N.L.: Also see Pedersen, P., Ebbesen, M.K.

Pedersen, P. & Pedersen, N.L.: Reflections on Truss and Continuum Topology Optimal Designs part of: Solid Mechanics and its Applications. IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials (ISBN: 987-1-4020-4729-9) pp 67-76 pages: 608, Springer, P.O. Box 17, 3300 AA Dordrecht, The Netherlands, 2006.

Pedersen, P.: Aspects of 3D Shape and Topology Optimization with Multiple Load Cases. Part of: III European Conference on Computational Mechanics, Solids, Structures and Coupled Problems in Engineeringpages: 1-10, Springer, Lisbon, Portugal, 2006.

Rasmussen, M.-L.H. & Stolpe, M.: A parallel method for solving discrete topology design problems. Proceedings of the 19TH Nordic Seminar on Computational Mechanics, Lund, 20-21 Oct, pp 178-181, 2006.

Blasone, R.S., Madsen, H. & Rosbjerg, D.: Comparison of parameter estimation algorithms in hydrological modeling. *Calibration and Reliability in Groundwater Modelling: From Uncertainty to Decision Making* (eds. M. F. P. Bierkens, J. C. Gehrels and K. Kovar), IAHS Publ. no. 304, pp 67-72, 2006.

Oelert, A. & Rosbjerg, D.: Characteristics of the water cycle and climate development in the arid environment of the Shule River basin. *Proc. Int. Symp. Sustainable Water Resources Management and Oasis-hydrosphere-desert Interaction in Arid Regions* (eds. Cheng Guodong, Lei Zhidong, L. Bengtsson, Wang Zhongjing, D. Rosbjerg, Zhang Linus, Zhao Jianshi and Hu Litang), 27-29 Oct. 2005, Beijing, pp 52-63, 2006.

Oelert, A. & Rosbjerg, D.: Hydrological modelling of the surface water in the Shule River basin. *Proc. Int. Symp. Sustainable Water Resources Management and Oasis-hydrosphere-desert Interaction in Arid Regions* (eds. Cheng Guodong, Lei Zhidong, L. Bengtsson, Wang Zhongjing, D. Rosbjerg, Zhang Linus, Zhao Jianshi and Hu Litang), 27-29 Oct. 2005, Beijing, pp 85-96, 2006.

Overgaard, J., Butts, M.B., Rosbjerg, D. & Gregersen, J.: Coupling hydrological and meteorological models using OpenMI to investigate land-use and climate change. *Hydroinformatics 2006* (eds. P. Gourbesville, J. Cunge, V. Guinot and S.-Y. Liong), Vol. III, Research Publishing, pp 2040-2047, 2006.

Madsen, H., Ngo, L.L. & Rosbjerg, D.: Multi-objective optimisation of reservoir operation using surrogate modeling. *Hydroinformatics 2006* (eds. P. Gourbesville, J. Cunge, V. Guinot and S.-Y. Liong), Vol. IV, Research Publishing, pp 2457-2464, 2006.

Aage, N., Sigurbjörnsson, R., Laustsen, S. & Skovgaard, O.: Predicting Tsunami Waves by Combining Analytical and Finite Element Methods. Nordic Comsol Conference, Copenhagen, pp. 59-64, 2006.

Sigmund, O.: On Topology Optimization with Manufacturing Constraints. Presented at: III European Conference on Computational Mechanics. Lisbon, Portugal, 2006. In: III European Conference on Computational Mechanics : Solids, Structures and Coupled Problems in Engineering, 2006.

Clausen, P.M. & Sigmund, O.: The pressure load problem revisited. Presented at: Topological Design Optimization of Structures, Machines and Materials. Rungstedgaard, Copenhagen, Denmark, 2005. In: IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials : Status and Perspectives, pp. 261-267-Dordrecht, The Netherlands : Springer, 2006.

Asakawa, K., Watanabe, Y., Ozaki, N., Mizutani, A., Takata, Y., Kitagawa, Y., Ikeda, N., Sugimoto, Y., Wang, X., Ohkouchi, S., Nakamura, S, Watanabe, A., Kristensen, M., Sigmund, O., Borel, P.I. & Baets, R.: Towards Integrated Optics for Advanced Ultra-Fast All-Optical Signal Processing. Presented at: ECOC. Cannes, France, 2006. In: ECOC 2006-Cannes, France, 2006.

Sigmund, O.: Also see Jensen, J.S., Yoon, G.H.

Sorokin S.V.: On alternative theories for analysis of time harmonic behaviour of elastic plates with and without heavy fluid loading. In: Proc. 13th International Congress on Sound and Vibration Ed. J.Eberhardsteiner, H.A. Mang, H. Waubke, 2006.

Sorokin S.V.: Control of wave propagation in compound fluid-filled elastic pipes. In: Proc. 11th International Conference 'Recent advances in Structural Dynamics', Ed. M.J. Brennan et al., 2006.

Holst-Jensen O. & Sorokin S.V.: On suppression of transmission of mechanical energy in straight elastic tubes by use of a limited number of equally spaced identical inertial attachments. In: Proc. 13th International Congress on Sound and Vibration Ed. J.Eberhardsteiner, H.A. Mang, H. Waubke, 2006.

Kuner, T., Schaefer, A., Spors, H. & Starke, J.: Vom M.O.kuel zum Verhalten: Verarbeitung und Lernen von Sinnesreizen im Geruchssystem. Jahrbuch der Heidelberger Akademie der Wissenschaften fuer 2005, Heidelberger Akademie der Wissenschaften, pp. 238-247, 2006.

Stegmann, J. & Stolpe, M.: Discrete material optimization of laminated composites – SIMP vs. global optimization. In C.A. Mota Soares et. al. (eds.), III European Conference on Computational Mechanics, Springer, 2006.

Stolpe, M., Achtziger, W. & Kawamoto, A.: A concept for global optimization of topology design problems, In M.P. Bendsøe, N. Olhoff, and O. Sigmund (eds.), IUTAM symposium on Topological Design Optimization of Structures, Machines and Materials, Springer, pp 185 – 194, 2006.

Stolpe, M.: Also see Rasmussen, M.H., Stegmann, J.

Dey, S., Sumer, B.M. & Fredsøe, J.: Control of scour around circular piles under waves and current. Proceedings, Third International Conference on Scour and Erosion, November 1-3, 2006, Amsterdam, The Netherlands, CURNET, Gouda, The Netherlands, pp. 169-173. Proceedings available only on CD Rom, 2006.

Hatipoglu, F., Sumer, B.M. & Fredsøe, J.: Cover stones/riprap over liquefiable soil. Proceedings, Third International Conference on Scour and Erosion, November 1-3, 2006, Amsterdam, The Netherlands, CURNET, Gouda, The Netherlands, pp.278-283. Proceedings available only on CD Rom, 2006.

Dey, S., Sumer, B.M. & Fredsøe, J.: Control of scour around circular piles under waves and current. Proceedings, Third International Conference on Scour and Erosion, November 1-3, 2006, Amsterdam, The Netherlands, CURNET, Gouda, The Netherlands, Extended Abstract, Abstract Proceedings, pp. 104-105, 2006.

Hatipoglu, F., Sumer, B.M. & Fredsøe, J.: Cover stones/riprap over liquefiable soil. Proceedings, Third International Conference on Scour and Erosion, November 1-3, 2006, Amsterdam, The Netherlands, CURNET, Gouda, The Netherlands, Extended Abstract, Abstract Proceedings, pp. 132-133, 2006.

Hatipoglu, F., Sumer, B.M. & Fredsøe, J.: Suction removal of sediment from between armour blocks in waves. 30th International Conference on Coastal Engineering, ICCE 2006, San Diego, USA, 2-9.September, Abstracts, Paper No. 275, 2006.

Carstensen, S., Sumer, B.M. & Fredsøe, J.: Coherent structures in oscillatory boundary layers. 30th International Conference on Coastal Engineering, ICCE 2006, San Diego, USA, 2-9.September, Abstracts, Paper No. 6, 2006.

Sørensen, M.P.: The Ginzburg-Landau Equation Solved by the Finite Element Method. In: Proceedings of the Comsol Conference, pp. 75-78, Copenhagen, Denmark : COMSOL, 2006.

Thomsen, J.J.: Computing effective properties of nonlinear structures exposed to strong high-frequency loading at multiple frequencies. In C. A. Mota Soares et.al (eds.), CD-ROM proceedings of the III European Conference on Computational Mechanics (ECCM2006), Lisbon, June 5–9, 20 pp, 2006.

Tvergaard, V.: Debonding or breakage of short fibres in a metal matrix composite. Proc. of IUTAM Symposium on Multiscale Modelling of Damage and Fracture in Composite Materials (ed. T. Sadowski), pp. 67-76, Springer Verlag, 2006.

Kuroda, M. & Tvergaard, V.: Some comments on strain gradient crystal plasticity theories. In: Khan, A.S. and Kazmi, R. (eds.), Anisotropy, Texture, Dislocations and Multiscale Modeling in Finite Plasticity & Viscoplasticity. Neat Press, Maryland, USA, pp. 652-654 (CD-ROM), 2006.

Yoon, G. H., Jensen, J. S. & Sigmund, O.: Topology optimization for acoustic-structure interaction problems. Presented at: Topology optimization for acoustic-structure interaction problems. In: IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials. M.P. Bendsøe et al. (eds), October 26-29, 2005, Rungstedgaard, Copenhagen, Denmark. Klüwer Academic Publishers, pp. 355-364, 2006..

Yoon, G. H., Jensen, J. S. & Sigmund, O.: Topological Design for Acoustic-Structure Interaction Problems with a Mixed Finite Element Method. Presented at: TOPOLOGICAL DESIGN FOR ACOUSTIC-STRUCTURE INTERACTION PROBLEMS WITH A MIXED FINITIE ELEMENT METHOD, 2006. In: III European conference on computational mechancis solids, structures and coupled problems, in engineering, June 5-8, 2006 Lisbon, Portugal - 1ed. -Springer, 8 pages 2006.

4B. PUBLICATIONS IN SCIENTIFIC JOURNALS IN 2006

Bendsøe, M.P.: See Gersborg-Hansen, A.

Bingham, H.B.: See Engsig-Karup, A.P.

Bisgaard, A., Brøns, M. & Sørensen, J. N.: Vortex Breakdown Generated by off-axis Bifurcation a cylinder with rotating covers. *Acta Mechanica*, Vol.: 187, pp. 75-83, 2006.

Bisgaard, A.: See Brøns, M.

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4 May 2006.

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Hackl, Benjamin: Geometry Variations, Level Set- and Phasefield-Methods for Perimeter Regularized Geometric Inverse Problems.

30 May 2006.

(University of Linz, Austria)

Jørgensen, Ole: An Application of Solid Mechanics in the Oil and Gas Industry.

31 May 2006.

(Mærsk Olie og Gas AS, Denmark)

Banks-Sills, Leslie: Interface Fracture of Homogeneous Materials and Laminates-Theory and Experiments.

13 November 2006.

(Professor at Tel Aviv University, Israel)

APPENDIX: List of members January 1 2007

Abbreviations:

from Technical University of Denmark

IMM: Dept. of Informatics and Mathematical Modelling
 MAT: Department of Mathematics
 MEK-ET: Dept. of Mechanical Engineering, Fluid Mechanics and Energy Engng.
 MEK-FAM: Dept. of Mechanical Engineering, Solid Mechanics
 MEK-K&P: Dept. of Mechanical Engineering, Engineering Design
 MEK-SKK: Dept. of Mechanical Engineering, Maritime Engineering

from Aalborg University

IBA-AAU: Department of Civil Engineering
 IME-AAU: Institute of Mechanical Engineering

Ahrenfeldt, Jesper	(MEK-ET)	Ph.D. student
Albertsen, Niels Chr.	(IMM)	Associate Professor, Ph.D.
Andersen, Poul	(MEK-SKK)	Associate Professor, Ph.D.
Andreasen, Jens H.	(IME-AAU)	Associate Professor, Ph.D.
Back-Pedersen, Andreas		Elected member, Ph.D.
Bendsøe, Martin P.	(MAT)	Professor, dr.techn.
Berggren, Carl Christian	(MEK-SKK)	Assistant Professor, Ph.D.
Bingham, Harry	(MEK)	Associate Professor
Bisgaard, A.	(MAT)	
Bjørnø, Leif		Elected member, Professor
Borg, Ulrik	(MEK-FAM)	Ph.D. student
Bozhevolnaya, Elena	(IME-AAU)	Associate Professor, Ph.D.
Branner, Kim		Elected member, Ph.D.
Bredmose, Henrik		Elected member
Brincker, Rune	(IBA-AAU)	Associate Professor
Broe, Brian R.	(MEK-ET)	Ph.D. student
Brohus, Henrik	(IBA-AAU)	Associate Professor, Ph.D.
Bræstrup, M.W.		Elected member, Ph.D.
Brøns, Morten	(MAT)	Professor, Ph.D.
Buhl, Thomas		Elected member, Ph.D.
Byskov, E.	(IBA-AAU)	Professor, dr.techn.
Carlsen, Henrik	(MEK-ET)	Professor, Ph.D.
Cavar, Dalibor	(MEK-ET)	Ph.D. student
Cederkvist, Jan		Elected member, Ph.D.
Christensen, Ole	(MAT)	Associate Professor, Ph.D.
Christiansen, Edmund		Elected member, dr.scient.
Dam, Bjarke	(MEK-ET)	Ph.D. student
Damkilde, Lars		Elected Member, Prof., Ph.D.
Ditlevsen, Ove	(MEK-SKK)	Professor, dr.techn.
Dühring, Maria B.	(MEK-FAM)	Ph.D. student
Ebbesen, Morten K.	(IME-AAU)	Ph.D. student
Elmegaard, Brian	(MEK-ET)	Associate Professor, Ph.D.

Engig-Karup, Allan	(MEK-SKK)	Ph.D. student
Felter, Christian L.	(MEK-FAM)	Ph.D. student
Foley, Christina	(IBA-AAU)	Assistant Professor, Ph.D.
Frandsen, Henrik L.	(IBA-AAU)	Ph.D. student
Frier, Christian	(IBA-AAU)	Assistant Professor, Ph.D.
Friis-Hansen, Peter	(MEK-SKK)	Professor, Ph.D.
Fuhrman, David	(MEK-SKK)	Ph.D. student
Gersborg-Hansen, Allan	(MAT)	Ph.D. student
Goltermann, Per		Elected member, Ph.D.
Gravesen, Jens	(MAT)	Associate Professor, Dr.phil.
Gunneskov, Ole		Elected member, Ph.D.
Halkjær, Søren		Elected member, Ph.D.
Hammer, Velaja B.		Elected member, Ph.D.
Hansen, Andreas	(MEK-ET)	Ph.D. student
Hansen, Martin O.L.	(MEK-ET)	Associate Professor, Ph.D.
Hansen, Michael R.	(IME-AAU)	Associate Professor, Ph.D.
Hansen, Mikael S.	(MAT)	Ph.D. student
Hansen, Morten Hartvig		Elected member, Ph.D.
Hansen, Per Chr.	(IMM)	Professor, dr.techn.
Hansen, S.K.	(MAT)	
Hansen, Vagn Lundsgaard	(MAT)	Professor, Ph.D.
Hassing, Henrik		Elected member, Ph.D.
Heilskov, Nicolai	(MEK-ET)	Ph.D. student
Heinrichson, Niels	(MEK-FAM)	Ph.D. student
Henriksen, Christian	(MAT)	Assistant Professor, Ph.D.
Henriksen, Ulrik B.	(MEK-ET)	Associate Professor, Ph.D.
Hernández, Gabriel G.M.	(MEK-ET)	Ph.D. student
Hindsgaul, Claus	(MEK-ET)	Ph.D. student
Hjorth, Poul	(MAT)	Associate Professor, Ph.D.
Hoffman, Mark	(IMM)	Ph.D. student
Houbak, Niels	(MEK-ET)	Associate Professor, Ph.D.
Hougaard, Kristian G.	(MEK-FAM)	Postdoc
Hougaard, Peter		Elected member, Ph.D.
Høgsberg, Jan	(MEK-SKK)	Ph.D. student
Ivarsson, Anders	(MEK-ET)	Ph.D. student
Jacobsen, Christian B.		Elected member, Ph.D.
Jacobsen, Johnny	(IME-AAU)	Ph.D. student
Jensen, Daniel K.	(IME-AAU)	Ph.D. student
Jensen, Henrik Myhre	(IBA-AAU)	Professor, dr. techn.
Jensen, Jacob F.	(MEK-SKK)	Ph.D. student
Jensen, Jakob S.	(MEK-FAM)	Associate Professor, Ph.D.
Jensen, Jarl	(MEK-FAM)	Associate Professor, HD
Jensen, Jørgen Juncher	(MEK-SKK)	Professor, dr.techn.
Jensen, Lars R.	(IME-AAU)	Ph.D. student
Johannes, Martin	(IME-AAU)	Ph.D. student
Johansen, Leon	(IME-AAU)	Ph.D. student
Kallesøe, Bjarne S.	(MEK-FAM)	Ph.D. student
Karamehmedovic, Miza	(MAT)	Ph.D. student
Kepler, Jørgen A.	(IME-AAU)	Associate Professor, Ph.D.
Kjølhede, Klaus	(MEK-FAM)	Ph.D. student

Kliem, Wolfhard	(MAT)	Associate Professor
Klit, Peder	(MEK-FAM)	Associate Professor, Ph.D.
Knudsen, Thomas S.		Elected member, Ph.D.
Kokkendorff, Simon L.	(MAT)	Ph.D. student
Krenk, Steen	(MEK-SKK)	Professor, dr. techn.
Lade, Poul V.		Elected member, Professor
Larsen, Mikael	(IME-AAU)	Associate Professor, Ph.D.
Larsen, Peter V.	(MAT)	Ph.D. student
Larsen, P. Scheel	(MEK-ET)	Professor, Ph.D.
Legarth, Brian N.	(MEK-FAM)	Assistant Professor, Ph.D.
Lemvig, Jakob	(MAT)	Ph.D. student
Lindgreen, Britta	(MEK-FAM)	Ph.D. student
Lind-Nielsen, Birger		Elected member, Ph.D.
Lucht, Tore	(MEK-FAM)	Ph.D. student
Lund, Erik	(IME-AAU)	Associate Professor, Ph.D.
Lundsgaard-Larsen, C.	(MEK-SKK)	Ph.D. student
Lyckegaard, Anders	(IME-AAU)	Assistant Professor, Ph.D.
Madsen, Kaj	(IMM)	Professor, dr.techn.
Madsen, Per	(MEK-SKK)	Professor, dr.techn.
Markvorsen, Steen	(MAT)	Professor, Ph.D.
Melnik, Roderick V.N.		Elected member, Professor
Meyer, Knud Erik	(MEK-ET)	Associate Professor, Ph.D.
Mikkelsen, Lars P.		Elected member, Ph.D.
Mikkelsen, Robert	(MEK-ET)	Assistant Professor, Ph.D.
Mohr, Gunnar	(MAT)	Professor
Moskovich, D.	(MAT)	
Mouritsen, Ole Ø.	(IME-AAU)	Associate Professor
Mørch, K.A.		Elected member, Ph.D.
Nielsen, H. Bruun	(IMM)	Associate Professor, Ph.D.
Nielsen, Jan B.		Elected member, Ph.D.
Nielsen, Leif Otto		Elected member, Asso. Prof. Ph.D.
Nielsen, N.-J. Rishøj		Elected member, Ph.D.
Nielsen, Peter V.	(IBA-AAU)	Professor, Ph.D.
Nielsen, Rasmus G.	(MEK-ET)	Ph.D. student
Nielsen, Søren R.K.	(IBA-AAU)	Professor, dr.techn.
Nielsen, Ulrik D.	(MEK-SKK)	Ph.D. student
Niordson, Christian	(MEK-FAM)	Associate Professor, Ph.D.
Niordson, Frithiof I.	(MEK-FAM)	Emeritus Professor, Ph.D.
Nordkvist, Nikolaj	(MAT)	Ph.D. student
Olhoff, Niels	(IME-AAU)	Professor, dr.techn.
Ottosen, Niels Saabye		Elected member, Professor
Overgaard, Lars C.T.	(IME-AAU)	Ph.D. student
Pedersen, Michael	(MAT)	Associate Professor, Ph.D.
Pedersen, Morten G.	(MAT)	Ph.D. student
Pedersen, Niels L.	(MEK-FAM)	Associate Professor, Ph.D.
Pedersen, Ole Bøcker		Elected member, dr.techn.
Pedersen, Pauli	(MEK-FAM)	Professor, dr.techn., HD
Pedersen, Preben T.	(MEK-SKK)	Professor, Ph.D.
Pedersen, Thomas Ørts		Elected member, Ph.D.
Perram, John W.		Elected member, Professor

Petersen, Thomas		Elected member, Ph.D.
Pommer, Christian	(MAT)	Professor
Pyrz, Ryszard W.	(IME-AAU)	Professor, dr.techn.
Rasmussen, Anders R.	(MAT)	Ph.D. student
Rasmussen, Jesper	(MAT)	Ph.D. student
Rasmussen, John	(IME-AAU)	Associate Professor, Ph.D.
Rasmussen, Marie-Louise H.	(MAT)	Ph.D. student
Rauhe, Jens Chr.	(IME-AAU)	Ph.D. student
Ravn, Erik S.	(MEK-SKK)	Assistant Professor
Ravn-Jensen, Kim		Elected member, Ph.D.
Richelsen, Ann Bettina	(MEK-FAM)	Associate Professor, Ph.D.
Riishede, Jesper	(MEK-FAM)	Postdoc
Rosbjerg, Dan		Elected member, Professor, dr.techn.
Røgen, Peter	(MAT)	Assistant Professor, Ph.D.
Santos, Ilmar Ferreira	(MEK-FAM)	Associate Professor, Dr.-Ing.
Schjødt-Thomsen, Jan	(IME-AAU)	Associate Professor, Ph.D.
Schramm, Jesper	(MEK-ET)	Associate Professor, Ph.D.
Schultz, Jacob P.	(MEK-SKK)	Ph.D. student
Shen, Wen Zhong	(MEK-ET)	Associate Professor
Sigmund, Ole	(MEK-FAM)	Professor, dr.techn.
Skovgaard, Ove	(MAT)	Professor, Ph.D.
Sorenson, Spencer C.	(MEK-ET)	Professor, Ph.D.
Sorokin, Sergey	(IME-AAU)	Professor, Ph.D.
Stang, Henrik		Elected member, Asso. Prof. Ph.D.
Starke, Jens	(MAT)	Associate Professor, dr.rer.nat.
Stegmann, Jan	(IME-AAU)	Assistant Professor, Ph.D.
Sterndorff, Martin J.		Elected member, Ph.D.
Stolpe, Mathias	(MAT)	Assistant Professor, tech. dr.
Stoustrup, Jakob		Elected member, Professor
Sumer, B. Mutlu	(MEK-SKK)	Professor
Svensson, E.		Elected member, Ph.D.
Svensson, Staffan	(IBA-AAU)	Associate Professor, Ph.D.
Søborg, Anders V.	(MEK-SKK)	Ph.D. student
Søndergaard, Peter	(MAT)	Ph.D. student
Sørensen, Jens Nørkær	(MEK-ET)	Professor, Ph.D.
Sørensen, John D.	(IBA-AAU)	Associate Professor, Ph.D.
Sørensen, Kim D.	(IBA-AAU)	Ph.D. student
Sørensen, Mads P.	(MAT)	Associate Professor, Ph.D.
Sørensen, Niels Jakob		Elected member, Ph.D.
Thoft-Christensen, Palle	(IBA-AAU)	Emeritus Professor, dr.techn.
Thomsen, Jon Juel	(MEK-FAM)	Associate Professor, dr.techn.
Thomsen, Ole Thybo	(IME-AAU)	Professor, Ph.D.
Thomsen, P. Grove	(IMM)	Professor
Troldborg, Niels	(MEK-ET)	Ph.D. student
True, Hans	(IMM)	Associate Professor, Ph.D.
Tvergaard, Viggo	(MEK-FAM)	Professor, dr.techn.
Westarp, Filip	(IBA-AAU)	Ph.D. student
Yoon, Gil Ho	(MEK-FAM)	XXXXXXXXXXXX
Zhu, Wei J.	(MEK-ET)	Ph.D. student
Østergaard, Rasmus C.	(MEK-FAM)	Ph.D. student