

2015-04-19

NOMINATION FORM FOR IEA FELLOW AWARD

Nominee for IEA Fellow: **Ole Broberg**

Person submitting nomination: Christina Jonsson, President of NES – Nordic Ergonomics and Human Factors Society

The Nomination:

1. Eligibility

Ole Broberg, Associate Professor PhD

Technical University of Denmark, Department of Management Engineering, Engineering Systems Group
Building 424, DK-2800 Lyngby, DENMARK

obro@dtu.dk
+45 4525 6033

Full member of IDA Danish Occupational Safety and Health Professionals (the Danish organization that are part of Nordic Ergonomics and Human Factors Society) since 1982.

Board member of IDA Arbejdsmiljø 1987 – 1991.

Chair of Program Committee Working Environment, The Danish Society of Engineers, 1989 – 1993.

Board member Nordic Ergonomics and Human Factors Society 1992 – 1995.

Member of Technical Committee on Organizational Design and Management (ODAM), IEA 2008 – on.

Conference Chair and Head of Organizing Committee 11th International Symposium on Human Factors in Organizational Design and Management (ODAM), and 46th Annual Nordic Ergonomics Society Conference (NES), 17th – 20th August 2014, Copenhagen.

The Council of Appeal on Health and Safety. Technical specialist appointed by the Minister of Employment, Denmark, 2011 – 2014.

2. Distinction

See appended CV and list of publications.

Endorsement by Nordic Ergonomics and Human Factors Society, NES

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CV:

Ole Broberg

Associate Professor PhD

Technical University of Denmark, DTU Management Engineering

+45 4525 6033 obro@dtu.dk

Education and Training

- 1985 PhD, Department of Working Environment, Technical University of Denmark
- 1981 MSc (Engineering), Technical University of Denmark
- 2010-11 Training courses at DTU in personnel management and change management

Academic Positions

- 2014 Head of Studies MSc program Design & Innovation, Technical University of Denmark
- 2013 Visiting Researcher, Federal University of Rio de Janeiro, COPPE
- 2012 Management team member Production and Service Management Division, DTU Management Engineering
Group leader Work Systems Design research group
- 2009 Visiting Researcher, Stanford University, Centre for Design Research
Host: H-STAR Program and Professor Larry Leifer
- 2005 - 09 Director MSc Program Engineering Management, Technical University of Denmark
- 1993 Board member Department of Working Environment, Technical University of Denmark
- 1989 - 90 Head of Department. Department of Working Environment, Technical University of Denmark
- 1989 - on Associate Professor, Technical University of Denmark
- 1985 - 89 Assistant Professor, Department of Working Environment, Technical University of Denmark

Academic Services

Editorship

- 2010 - on Editorial Board *IIE Transactions on Occupational Ergonomics and Human Factors*
- 2007 – on Editorial Board *The Open Ergonomics Journal*

Reviewing

- Journals Applied Ergonomics; International Journal of Industrial Ergonomics; Ergonomics; European Journal of Industrial Engineering; Journal of Engineering Design; The Open Ergonomics Journal; IIE Transactions on Occupational Ergonomics and Human Factors; Safety Science; Industrial Health; Producao; Journal of Human Factors Modelling and Simulation; Intelligent Buildings International

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- Conferences 10th International Symposium on Human Factors in Organisational Design and Management (ODAM), Grahamstown, South Africa 2011
- 18th International Conference on Engineering Design (ICED), Copenhagen, Denmark 2011
- 11th International Symposium on Human Factors in Organisational Design and Management (ODAM), Copenhagen, Denmark 2014
- 21st International Conference on Engineering Design (ICED), Milano, Italy 2015
- Research Referee Social Sciences and Humanities Research Council of Canada, 2011
- Conference**
- 2008 – 14 Chair Organising Committee 11th International Symposium on Human Factors in Organisational Design and Management (ODAM), Copenhagen, Denmark 2014
- 2010 International Scientific Board 10th International Symposium on Human Factors in Organisational Design and Management (ODAM), Grahamstown, South Africa 2011
- Invited Talks**
- 2015 Invited speaker European Conference on Cognitive Ergonomics ECCE 2015, Warsaw, Poland.
- Invited speaker, 3rd European Congress for Bronchology and Interventional Pulmonology, Barcelona, Spain
- 2014 Invited keynote speaker 17th Congresso Brasileiro de Ergonomia, Sao Carlos, Brazil
- 2013 Invited keynote speaker IMS Symposium “Future Industrial Meat production”, Copenhagen
- 2010 Invited keynote speaker International Conference on Industrial Engineering and Operations Management (XVIth ICIEOM), Sao Carlos, Brazil
- External examiner**
- Aalborg University; The Royal Danish Academy of Fine Arts, School of Design

Committees and Memberships

- 2011 – 14 The Council of Appeal on Health and Safety at Work. DTU technical specialist appointed by the Minister of Employment
- 2009 Member Design Society
- 2008 – on Member Technical Committee on Organizational Design and Management, International Ergonomics Association (IEA)
- 1993 – on Head and member of PhD assessment committees at Aalborg University, Chalmers University of Technology, Luleå University of Technology
- 1992 – on Head and member of assessment committees for faculty positions at Aalborg University, Roskilde University, Chalmers University of Technology, Technical University of Denmark
- 1992 - 95 Board member and award jury Nordic Ergonomics Society.
- 1990 – 95 Member Advisory Board, Centre of Environmental Medicine. Ministry of

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Health, Denmark

1989 – 93 Chair of Program Committee Working Environment, The Association of Danish Engineers

1987 – 91 Board member The Occupational Health and Safety Society, The Association of Danish Engineers

Grants

2014 *The Danish Maritime Fund.* Method for knowledge transfer from the operations phase of offshore units into design, planning, and optimization. Principal applicant and project manager (2.050.000 DKK)

2013 *The Danish Industry Foundation.* Methods for employee participation in product innovation. Principal applicant and project manager (2.280.000 DKK)

Danish Agency for Science Technology and Innovation. International Network Program. Human Factors Engineering and Systems Design with Federal University of Rio de Janeiro/Production Engineering Program. Principal applicant and project manager (233.000 DKK)

COWIfonden. 11th International Symposium on Organizational Design and Management (ODAM) Conference, Copenhagen 2014. Principal applicant and Conference Chair (100.000 DKK)

Otto Mønstedts Fond. 11th International Symposium on Organizational Design and Management (ODAM) Conference, Copenhagen 2014. Principal applicant and Conference Chair (50.000 DKK)

2012 – on *The Working Environment Research Fund.* PhD Scholarship. Interactive simulation : A new means for promoting occupational health and safety in the hospital sector. Principal applicant and project manager (1.800.000 DKK)

2011 – 14 *The Working Environment Research Fund.* Development of occupational health and safety management in companies. Part of CAVI: Centre for research in OHS efforts and instruments. Research participant

2010 – 13 *The Working Environment Research Fund.* Workspace Design II: Development of a new dialogue-oriented design practice. Principal applicant and project manager (3.500.000 DKK)

2010 - 12 *Danish Business Authority.* Healthcare Innovation Lab: User-driven innovation. Leading researcher of sub-project) (600.000 DKK)

2009 – on *Danish Agency for Science Technology and Innovation.* Industrial PhD scholarship with Alectia Consulting. Integration of human factors knowledge into engineering design processes. Principal applicant and project manager

2005 – 08 *The Working Environment Research Fund.* Workspace Design I: User involvement and work life integration into technological and organizational change processes. Principal applicant and project manager

2005 - 08 *The Working Environment Research Fund.* Safety in design and planning of production systems. Project manager

2001 – 04 *The Working Environment Research Fund.* Promoting the occupational health services efforts in relation to technological changes in companies. Principal applicant and project manager

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Awards

- 2009 Scholarship at Stanford University, Danish Agency for Science, Technology and Innovation
- 2009 Travel grant, Otto Mønstedts Fond, Denmark
- 2004 Nordic Ergonomics Society Great Prize

Publications Ole Broberg

Peer-reviewed Papers in International Scientific Journals

- Andersen, S.N. & Broberg, O. (2015). Participatory ergonomics simulation of hospital work systems: The influence of simulation media on simulation outcome. *Applied Ergonomics*. (re-submitted)
- Seim, R., Broberg, O. & Andersen, V. (2014). Ergonomics in design processes: The journey from ergonomist towards workspace designer. *Human Factors and Ergonomics in Manufacturing & Service Industries*, 24(6), 656-670.
- Hall-Andersen, L. B., Broberg, O. (2014). Learning opportunities across knowledge domains. *Journal of Workplace Learning*, 26(2), 91-108.
- Hall-Andersen, L.B. & Broberg, O. (2014). Integrating ergonomics into engineering design: The role of objects. *Applied Ergonomics*, 45, 647-654.
- Broberg, O. & Edwards, K. (2012). User-driven innovation of an outpatient department. *Work*, 41, 101-106.
- Sørensen, L.B. & Broberg, O. (2012). Integrating ergonomics in design processes: A case study within an engineering consultancy firm. *Work*, 41, 949-955 .
- Conceição, C., Silva, G., Broberg, O. & Duarte, F. (2012). Intermediary objects in the workspace design process: means of experience transfer in the offshore sector. *Work*, 41, 127-135.
- Broberg, O., Andersen, V., Seim, R. (2011). Participatory ergonomics in design processes: The role of boundary objects. *Applied Ergonomics* 42, 464-472.
- Broberg, O. (2010). Workspace Design: A case study applying participatory design principles for healthy workplaces in an industrial setting. *International Journal of Technology Management*, 51(1), 39-56.
- Seim, R., & Broberg, O. (2010). Participatory workspace design: A new approach for ergonomists? *International Journal of Industrial Ergonomics*, 40, 25-33.
- Broberg, O. (2008). Cuando el proyecto participativo de espacios de trabajo se encuentra con el proyecto de ingeniería en eventos de colaboración mutua. *Laboreal*, 4(2).
- Broberg, O., & Hermund, I. (2007). The OHS consultant as a facilitator of learning in workplace design processes: Four explorative case studies of current practice. *International Journal of Industrial Ergonomics*, 37, 810-816.
- Broberg, O. (2007). Integrating ergonomics into engineering: Empirical evidence and implications for the ergonomists. *Human Factors and Ergonomics in Manufacturing*, 17(4), 353-366.
- Broberg, O., & Hermund, I. (2004). The OHS consultant as a 'political reflective navigator' in technological change processes. *International Journal of Industrial Ergonomics*, 33(4), 315-326.
- Broberg, O., & Posniak, I. (2001). Integrating working environment aspects into a national research and development programme for food technology. *Human Factors and Ergonomics in Manufacturing*, 11(2), 117-129.
- Broberg, O., & Christensen, P. (1999). LCA experiences in Danish industry. *International Journal of Life Cycle Assessment*, 4(5), 257-262.
- Broberg, O. (1997). Integrating ergonomics into the product development process. *International Journal of Industrial Ergonomics*, 19, 317-327.

Other Journal Papers

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- Broberg, O., Edwards, K., Nielsen, J., Hartmann, T., Momme, E., Sperschneider, W., Jensen, E.B., Lebech, M. (2012). Brugere omkring bordet fremmer innovation. *Tidsskrift for Dansk Sygehusvæsen*, 88(5), 23-29.
- Edwards, K., Broberg, O. (2012). Simulation – Et effektivt redskab til design og udvikling af kundevedtede processer. *Effektivitet*, 2, 10-11.
- Broberg, O. (2001). Teknologiske designprocesser og arbejdsmiljø - om social formning af teknologi og arbejdsmiljø i fødevarerektoren. *Tidsskrift for Arbejdsliv*, 3(2).

Conference Papers with Peer-Review

- Broberg, O., Conceicao, C., Jensen, A.R.V. (2015). *A macro-ergonomic perspective on analyzing and designing knowledge transfer systems in engineering projects within the oil drilling industry*. 19th International Ergonomics Association Congress. (accepted)
- Broberg, O., Jensen, A.R.V., Gish, L. (2015). *Employee participation in product innovation: Crossing organizational boundaries by alignment of work systems*. 19th International Ergonomics Association Congress. (accepted)
- Conceicao, C., Broberg, O., Jensen, A.R.V. (2015). *Transferring knowledge from work to the design and optimization of work systems: Bridging the offshore/onshore gap*. 19th International Ergonomics Association Congress. (accepted)
- Andersen, S.N., Broberg, O. (2014). *Simulation in full-scale mock-ups: an ergonomics evaluation method?* Proceedings from 11th International Symposium on Human Factors in Organizational Design and Management (ODAM), IEA Press, Santa Monica CA. (pp. 793-798)
- Conceicao, C., Broberg, O., Aldrich, P.T., Banke, P. (2014). *Participatory ergonomics in industrial engineering projects: The case of a new cheese packaging line work system*. Proceedings from 11th International Symposium on Human Factors in Organizational Design and Management (ODAM), IEA Press, Santa Monica CA. (pp. 1071-1072)
- Seim, R., Poulsen, S., Broberg, O. (2014). *New developments of occupational health and safety management in Danish companies*. Proceedings from 11th International Symposium on Human Factors in Organizational Design and Management (ODAM), Santa Monica CA. (pp. 371-376)
- Broberg, O., Duarte, F., Andersen, S., Bittencourt, J., Conceicao, C., Edwards, K., Garotti, L., Lima, F. (2014). *A framework for using simulation methodology in ergonomics interventions in design projects*. Proceedings from 11th International Symposium on Human Factors in Organizational Design and Management (ODAM), IEA Press, Santa Monica CA. (pp. 779-780)
- Conceicao, C., Lundsgaard, C., Broberg, O. (2014). *Developing through prototyping: a resource material on user involvement for workspace design*. Proceedings from 13th International Design Conference. Design Society. 8 pp.
- Conceicao, C., Broberg, O., Banke, P., Aldrich, P. (2013). *Interactive methods to involve users into workspace design process*. Proceedings from 50^{ème} Congrès International. Société d'Ergonomie de Langue Francaise.
- Conceicao, C., Duarte, F., Broberg, O. (2012). *Intermediary object for participative design processes based on the ergonomic work analysis*. Proceedings from 44th Annual Nordic Ergonomics Society Conference, Stockholm. 6pp.

- Broberg, O., Edwards, K., Nielsen, J., Hartmann, T.S., Momme, E., Sperschneider (2012). *Scenario-based table top simulations*. Proceedings from 44th Annual Nordic Ergonomics Society Conference, Stockholm. 6 pp.
- Conceicao, C., Duarte, F., Broberg, O. (2012). *De l'analyse ergonomique du travail à la conception de nouveaux espaces de travail: tranfert d'informations d'usagers à des concepteurs par des objets intermédiaires*. Proceedings from 47ème Congrès International Société d'Ergonomie de Langue Francaise. 6 pp.
- Edwards, K., Broberg, O., Nielsen, J., Hartmann, T.S., Momme, E. & Hansen, M.G. (2012). Simulation as a method for developing new work processes in an outpatient unit. *Proceedings 5th NOVO Symposium*.
- Edwards, K., Broberg, O., Nielsen, J., Alapetite, A. & Boje, H. (2012). Using explorative simulation to drive user-centered design and IT development in health care. *Proceedings 11th International Probabilistic Safety Assessment and Management Conference & The Annual European Safety and Reliability Conference*.
- Broberg, O. (2011). Enabling objects for participatory design of socio-technical systems. *Proceedings of the 18th International Conference on Engineering Design (ICED)*. Vol. 7, (pp. 64-73).
- Broberg, O., Andersen, V. & Seim, R. (2011). Boundary objects in participatory ergonomics design processes. In *Proceedings of the 10th International Symposium on Human Factors in Organizational Design and Management (ODAM)*. (pp. 281-286)
- Sørensen, L.B. & Broberg, O. (2011). Integrating ergonomics into the engineering design of a hospital sterile processing plant: The role of an intermediary object. In *Proceedings of the 10th International Symposium on Human Factors in Organizational Design and Management (ODAM)*. (pp. 235-240)
- Broberg, O., Seim, R., Andersen, V. (2010). Boundary objects in participatory ergonomics design processes. *Proceedings from Nordic Ergonomics Society Annual Conference*. (D2 pp. 8-12)
- Souza, C., Broberg, O., Duarte, F. (2010). Development of guidelines from ergonomic analysis to workspace design in the offshore accommodations module. *Proceedings from Nordic Ergonomics Society Annual Conference*. (B4 pp. 16-20)
- Broberg, O., Seim, R., & Andersen, V. (2009). How can ergonomic practitioners learn to practice a macroergonomic framework developed in academia? In *Proceedings 17th World Congress on Ergonomics*. Beijing:.
- Jensen, P. L., Broberg, O., & Møller, N. (2009). Ergonomics, engineering and business: Repairing a tricky divorce. In *Proceedings 17th World Congress on Ergonomics*. Beijing:.
- Broberg, O. (2008). The workspace design approach: How users and OHS consultants can transform design scripts. In *Proceedings from Nordic Ergonomics Society Annual Conference 2008* (p. 5 pp.). Reykjavik: Nordic Ergonomics Society.
- Broberg, O. (2008). When participatory workspace design meets engineering design in collaborative events. In L. I. Sznclwar, F. L. Mascia, & U. B. Montedo (Eds.), *Human Factors in Organizational Design and Management - IX* (pp. 617-622). Santa Monica: IEA Press.
- Broberg, O. (2007). The workspace design concept: A new framework of

- participatory ergonomics. In C. Berlin & L.-O. Bligaard (Eds.), *NES 2007 Ergonomics for a Future* (p. 5 pp.). Nordic Ergonomics Society.
- Broberg, O. (2006). Workspace design: Integrating ergonomics into the design of production systems. In R.N.Pikaar, E.A.P.Koningsveld, & P.J.M.Settels (Eds.), *Meeting Diversity in Ergonomics* (p. 4pp.). Amsterdam: Elsevier.
- Dyhrberg, M. B., Broberg, O., & Jacobsen, P. (2006). Safety in the redesigning of production lines. In R.N.Pikaar, E.A.P.Koningsveld, & P.J.M.Settels (Eds.), *Meeting Diversity in Ergonomics* (p. 6 pp.). Amsterdam: Elsevier.
- Jensen, P., Broberg, O., & Hasle, P. (2006). Design and management of production systems: Integration of human factors and ergonomics. In R.N.Pikaar, E.A.P.Koningsveld, & P.J.M.Settels (Eds.), *Meeting Diversity in Ergonomics* (p. 6 pp.). Amsterdam: Elsevier.
- Broberg, O., & Andreasen, M. M. (2005). Learning participatory workspace design in an engineering design curriculum. In A. Samuel & W. Lewis (Eds.), *Engineering Design and the Global Economy* (p. 8 pp.). Design Society.
- Broberg, O. (2005). Don't engineers care about occupational health and safety? In A. Samuel & W. Lewis (Eds.), *Engineering Design and the Global Economy* (p. 14 pp.). Design Society.
- Broberg, O. (2005). Staging the workplace design process: The role of ergonomists. In *International Conference on Human Aspects of Advanced Manufacturing: Agility and Hybrid Automation (HAAMAHA 2005)* (p. 7pp).
- Broberg, O. (2005). Workspace Design: New Ways for Ergonomists? In B. Veiersted, K. I. Fostervold, & K. S. Gould (Eds.), *Ergonomics as a tool in future development and value creation* (pp. 303-307). Oslo: Nordic Ergonomic Society.
- Broberg, O. (2004). Ergonomics approaches to sociotechnical design processes. In H. Luczak & K. J. Zink (Eds.), *Human Factors in Organizational Design and Management VII* (pp. 135-140). Santa Monica: IEA Press.
- Broberg, O. (2004). Socio-technical perspectives on workspace design. In E. F. Fallon & W. Karwowski (Eds.), *1 Human & Organizational Issues in the Digital Enterprise* (pp. 36-43). Galway: NUIG.
- Broberg, O. (2004). Workspace design: The role of ergonomist. In K. B. Olsen & O. J. Teller (pp. 87-87). Copenhagen: Nordic Ergonomics Society.
- Broberg, O. (2004). OHS consultants as facilitators of learning processes in client enterprises. In *Towards a multidimensional approach in occupational health services: scientific evidence, social consensus, human values* (pp. 12-12). Modena: International Commission on Occupational Health.
- Broberg, O., & Hermund, I. (2003). Opportunities and barriers for OHS consultants in a technological change process at a client enterprise. In *International Ergonomics Associations XVth Triennial Congress, vol. 7* (pp. 84-87). Seoul: Ergonomics Society of Korea.
- Broberg, O., & Hermund, I. (2003). New check-in desks in an airport: The OHS consultant as a 'political reflective navigator'. In *International Ergonomics Associations XVth Triennial Congress, vol. 7* (pp. 188-191). Seoul: Ergonomics Society of Korea.
- Broberg, O., & Hermund, I. (2003). Opportunities and barriers for OHS consultants in a technological change process at a client enterprise. In *Nordic Ergonomics Society Annual Conference* (pp. 170-173).
- Jensen, P. L., & Broberg, O. (2003). Conceptual frames for changing production

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- system design. In *International Ergonomics Associations XVth Triennial Congress, vol. 7* (pp. 27-30). Seoul: Ergonomics Society of Korea.
- Broberg, O., & Hermund, I. (2002). The OHS consultant as a 'political reflective navigator' in technological change processes at client enterprises. In D. Caldenfors, J. Eklund, & L. Kiviloog (Eds.), *Humans in a complex environment* (pp. 133-138). Linköping: Nordic Ergonomics Society.
- Jensen, P. L., & Broberg, O. (2001). A socio-technical approach to teaching the social impacts of technological development. In *New Engineering Competencies - Changing the Paradigm*. Copenhagen: SEFI.
- Broberg, O. (2000). Sociotechnical design processes and working environment: The case of a continuous process work. In K. I. Fostervold & T. Endestad (Eds.), *Ved inngangen til Cyberspace - ergonomisk tenkning inn i et nytt Årtusen* (pp. 35-38). Oslo: Nordiska Ergonomisällskapet og NEF.
- Broberg, O. (2000). Sociotechnical design processes and working environment: The case of a continuous process work. In T. Marek & W. Karwowski (Eds.), *Human Aspects of Advanced Manufacturing: Agility & Hybrid Automation III* (pp. 308-312). Krakow: Jagiellonian University.
- Broberg, O. (2000). Design of new food technology: Social shaping of working environment. In *Proceedings of the XIVth Congress of the International Ergonomics Association* (pp. 16-19). Santa Monica CA: Human Factors and Ergonomics Society.
- Broberg, O. (2000). Engineering subcultures and working environment in Danish enterprises. In *Proceedings of the XIVth Congress of the International Ergonomics Association* (pp. 336-339). Santa Monica CA: Human Factors and Ergonomics Society.
- Broberg, O. (1999). Designprocesser og arbejdsmiljø: Udvikling af ny teknologi til fødevarerindustrien. In C. Dalsgaard (Ed.), *Læring og forandring - vejen til et bedre arbejdsmiljø* (pp. 176-184). København: Nordisk Ergonomiselskab og Selskab for Arbejdsmiljø.
- Broberg, O. (1998). Organizational and social aspects of integrating working environment considerations into product development. In P. Vink, E. A. P. Koningsveld, Dhondt, & S. (Eds.), *Human Factors in Organizational Design and Management VI* (pp. 451-456). Amsterdam: Elsevier.
- Broberg, O., Hansen, N. J., & Høgsbro, M. (1998). Engineers' role in the management of working environment in Danish enterprises: Results of a national survey. In W. Karwowski & R. Gonnetilleke (Eds.), *Manufacturing Agility and Hybrid Automation II* (pp. 207-210). Santa Monica CA: IEA Press.
- Broberg, O., & Posniak, I. (1997). Ergonomics in a national research and development programme for food technology. In P. Seppänen (Ed.), *From Experience to Innovation, Vol. 6* (pp. 9-11). Helsinki: Finnish Institute of Occupational Health.
- Posniak, I., & Broberg, O. (1997). Integrating ergonomic aspects into research and development projects as a preventive strategy in the food industries. In P. Seppänen (Ed.), *From Experience to Innovation, Vol. 6* (pp. 60-62). Helsinki: Finnish Institute of Occupational Health.
- Broberg, O. (1996). Conditions and strategies for integrating ergonomics into product development. In R. J. Koubek & W. Karwowski (Eds.), *Manufacturing Agility and Hybrid Automation I* (pp. 211-214). Louisville: IEA Press.

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- Broberg, O. (1996). Improving occupational safety and health by integration into product development. In *Proceedings XIVth World Congress on Occupational Safety and Health* (pp. 171-172). Madrid: Instituto Nacional de Seguridad e Higiene en el Trabajo.
- Broberg, O. (1995). Strategier for at inddrage arbejdsmiljøhensyn i produktudvikling. In C. Dalsgaard (Ed.), *Menneske, arbejde og miljø - et bæredygtigt samspil?* (pp. 227-231). København: Nordisk Ergonomiselskab og Selskab for Arbejdsmiljø.
- Broberg, O. (1994). Integrating ergonomics into the product development process. In G. Palmerud (Ed.), *Genomförandet av förändringar* (pp. 123-126). Göteborg: Ergonomisällskapet Sverige.
- Broberg, O. (1994). Integrating occupational safety and health aspects into the product development process. In *Proceedings 12th Congress of the International Ergonomics Association*. (pp. 44-46). Ontario: Human Factors Associations of Canada.
- Broberg, O. (1993). Integration af arbejdsmiljøhensyn i virksomheders produktudvikling. In U.-M. Landor (Ed.), *Ergonomi och företagsekonomi*. (pp. 35-39). Åbo: Painosalama Oy.
- Rasmussen, E., & Broberg, O. (1993). Improving the working environment and the general environment by life cycle design of industrial products. In *Proceedings from XIIIth World Congress on Occupational Safety and Health* (pp. 274-277). New Delhi:.
- Broberg, O. (1992). Arbejdsmiljø og livscykluskonstruktion af industriprodukter. In *Mennesket og omgivelserne - i takt?* (p. 3 pp.). Oslo: Nordiska Ergonomisällskapet og NEF.
- Broberg, O. (1991). Muligheder og barrierer for at inddrage ingeniører og teknikere i det forebyggende arbejdsmiljøarbejde. In *Arbejdets udvikling* (pp. 41-45). København: Nordisk Ergonomi Selskab og Selskab for Arbejdsmiljø.
- Broberg, O. (1991). Different approaches to occupational safety and health management in biotechnological companies. In Y. QuÇinnec & F. Daniellou (Eds.), *Designing for Everyone. Vol. 2* (pp. 1028-1030). London: Taylor & Francis.
- Broberg, O. (1990). Arbejdsmiljøarbejde i bioteknologiske virksomheder i Danmark, Sverige, Holland, England og USA. In H. Hayenhjelm (Ed.), *Ny teknik, nya problem, nya möjligheter* (pp. 93-96). Stockholm: Ergonomisällskapet Sverige.
- Buchardt, H. B., Broberg, O., Mikkelsen, S.H. (1990). *Occupational safety and health management in some biotechnological companies in Denmark, Sweden, Netherlands, England and USA*. Proceedings from 5th European Congress on Biotechnology, Copenhagen.
- Broberg, O. (1990). Occupational safety and health management in seven biotechnological companies in Denmark. In *XIIth World Congress on Occupational Safety and Health. Proceedings* (pp. 221-223). Sankt Augustin: German Organizing Committee.
- Broberg, O. (1988). Danish experiences with the control of chemical health hazards: A case-study in the textile industry. In *XIth World Congress on the Prevention of Occupational Accidents and Diseases* (pp. 662-664). Stockholm: Swedish Work Environment Association.

Book Chapters

- Broberg, O., Seim, R., Andersen, V. (2012). Projeto colaborativo de espaços de trabalho: O papel dos objetos de fronteira. In R. Bartholo, Duarte, F.J. C.M., Cipolla, C. (Ed.), *A projecção e seus horizontes: Questões contemporâneas para a engenharia de produção* (Vol. VI, pp. 155-168). Rio de Janeiro: E-papers.
- Broberg, O. (2010). Workspace Design: Participation in Collaborative Design Processes. In F. Garibaldo & V. Telljohann *The Ambivalent Character of Participation* (pp. 613-634). Frankfurt am Main: Peter Lang.
- Broberg, O., Seim, R., Andersen, V. (2010). Collaborative design of workplaces: The role of boundary objects. In P. Vink, Kantola, J. (Ed.), *Advances in Occupational, Social, and Organisational Ergonomics* (pp. 49-58). Boca Raton: CRC Press Taylor & Francis.
- Broberg, O. (2001). Designprocesser og arbejdsmiljø: Udvikling af ny teknologi til fødevarerindustrien. In O. Broberg & C. Clausen (Eds.), *Arbejdsmiljø og teknologisk udvikling: Nye strategier og perspektiver* (pp. 73-80). København: Arbejdsmiljørådets Service Center.
- Broberg, O. (1999). Inddragelse af arbejdsmiljøhensyn i designprocesser. In C. Clausen, P. L. Jensen, A. Kamp, & K. T. Nielsen (Eds.), *Perspektivforandringer i arbejdsmiljøet - en antologi fra "Arbejdsmiljø og teknologisk udvikling"* (p. 39 pp.). RUC, AAU og DTU.
- Broberg, O., Posniak, I., & Jensen, P. L. (1997). Ergonomics and planning of technology. In K. T. Nielsen & C. Clausen (Eds.), *Working Environment and Technological Development - Positions and Perspectives* (pp. 21-38). DTU, RUC and AUC.

Research Reports

- Nielsen, T.W., Paulsen, J., Broberg, O. & Mikkelsen, K.L. (2008). Sikkerhed i design og planlægning af produktionssystemer. Lyngby: DTU Management.
- Hermund, I., & Broberg, O. (2004). *BST og teknologiske forandringer: Læring og videndeling i BST-rådgivning*. København: Arbejdsmiljørådets Service Center.
- Hermund, I., & Broberg, O. (2003). *BST og teknologiske forandringer: BST-konsulentens som politisk reflektiv navigatør*. København: Arbejdsmiljørådets Service Center.
- Broberg, O., & Clausen, C. (2001). *Arbejdsmiljø og teknologisk udvikling: Nye strategier og perspektiver*. København: Arbejdsmiljørådets Service Center.
- Hasle, P., Broberg, O., Hvenegaard, H., & Jensen, U. B. (2000). *Arbejdsmiljøindsatsen i 25 år - succes eller fiasko?* København: CASA.
- Broberg, O., Christensen, P., & Wenzel, H. (1998). *Danske virksomheders erfaringer med livscyklusvurderinger*. Lyngby: Institut for Teknologi og Samfund, Danmarks Tekniske Universitet.
- Høgsbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Rapport nr. 2: Ingeniører i elektro- og elektronikvirksomheder*. København: Ingeniørforeningen i Danmark.
- Høgsbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Rapport nr. 3: Ingeniører i kemiske virksomheder*. København: Ingeniørforeningen i Danmark.

2015-04-19

- Høgsgbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Rapport nr. 4: Ingeniører i bygge- og anlægsvirksomheder*. København: Ingeniørforeningen i Danmark.
- Høgsgbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Rapport nr. 5: Ingeniører i maskinvirksomheder*. København: Ingeniørforeningen i Danmark.
- Høgsgbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Hovedrapport*. København: Ingeniørforeningen i Danmark.
- Høgsgbro, M., Broberg, O., & Hansen, N. J. (1998). *Ingeniører og arbejdsmiljø. Rapport nr. 1: Ingeniører i offentlige servicevirksomheder*. København: Ingeniørforeningen i Danmark.
- Broberg, O. (1997). *Inddragelse af arbejdsmiljøhensyn i produktudvikling*. København: Arbejdsmiljøfondet.
- Broberg, O. (1996). *Arbejdsmiljø og produktudvikling hos KEW Industri A/S*. Lyngby: Institut for Teknologi og Samfund, DTU.
- Broberg, O., & Rasmussen, E. (1996). *Arbejdsmiljø fra vugge til grav: Udvikling af arbejdsmiljøvenlige industriprodukter ved hjælp af livscyklusvurdering*. København: Arbejdsmiljøfondet.
- Posniak, I., & Broberg, O. (1996). *Arbejdsmiljøaspekter i det fødevareteknologiske forsknings- og udviklingsprogram. Rapport nr. 1: Resultater fra en spørgeskemaundersøgelse blandt 57 FØTEK 1 samarbejdsprojekter*. Lyngby: Levnedsmiddelcentret & Institut for Teknologi og Samfund, DTU.
- Posniak, I., & Broberg, O. (1996). *Arbejdsmiljøaspekter i Det Fødevareteknologiske Forsknings- og Udviklingsprogram. Rapport nr. 3: Et casestudie af FØTEK 1 samarbejdsprojektet "Sensorteknologi i den kødforarbejdende industri"*. Lyngby: Levnedsmiddelcentret og Institut for Teknologi og Samfund, DTU.
- Broberg, O. (1994). *Arbejdsmiljø og produktudvikling på Danfoss A/S*. Lyngby: Institut for Arbejdsmiljø, DTU.
- Broberg, O. (1994). *Arbejdsmiljø i livscyklusvurderinger af produkter*. Lyngby: Institut for Arbejdsmiljø, DTH.
- Broberg, O. (1994). *Arbejdsmiljø og produktudvikling. Belyst ved papers fra IEA-konferencen i Toronto august 1994*. Lyngby: Institut for Arbejdsmiljø, DTH.
- Broberg, O., & m.fl. (1993). *Livscyklusvurderinger og arbejdsmiljø*. København: Arbejdsmiljøinstituttet.
- Jensen, A. H., Winge, U., & Broberg, O. (1992). *Miljø- og arbejdsmiljøvurdering af materialer - metode til livscyklusvurdering*. København: Miljøstyrelsen.