



Bioenergy NoE

Bioenergy Network of Excellence

List of Bioenergy Publications from the Partner Organisations 2004 - 2005

Sponsored by the EC's DG Research, Bioenergy Network of Excellence (NoE) is a partnership of eight leading bioenergy institutes that are integrating their expertise and activities to foster excellence in European bioenergy RD&D. For more information about Bioenergy NoE please visit the website: www.bioenergynoe.org.

Each partner institute actively contributes to bioenergy research in Europe by publishing and presenting work around the globe. This list of publications demonstrates the ongoing work of each Bioenergy NoE partner in the biomass and bioenergy field since Bioenergy NoE began in 2004.



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Bio-Energy Research Group, Aston University, Birmingham UK

More information on BERG's publications can be found at: www.aston-berg.co.uk

2004 BERG Publications

Brammer, J. G., Bridgwater, A. V., Lauer, M. & Jungmeier, G. (2004). Opportunities for Bio-oil in European Heat and Power Markets. In: Science in Thermal and Chemical Biomass Conversion. CPL press Newbury, UK.

Bridgwater A.V. & Bolhàr-Nordenkampf M. (2004) Economics of biomass gasification. In: Handbook of biomass gasification. (Ed. by H. Knoef).

Bridgwater AV & Knoef H. (2004) International network in thermal biomass conversion – ThermoNet. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Bridgwater A.V. & Maniatis K. (2004) The production of biofuels by the thermochemical processing of biomass. In: Molecular to Global Photosynthesis. (Ed by M.D. Archer & J. Barber), pp 521-612. IC Press.

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Bridgwater A.V.(2004) Advances in the Thermal Processing of Biomass for Energy and Chemicals, Keynote Paper. In: Bioenergy Australia 2004 Conference: Building the Australian Bioenergy Industry. Hilton Adelaide, SA, Australia, 29 November – 1 December.

Bridgwater A.V. (2004) Biomass fast pyrolysis. Thermal Science, 8(2), 17-45.

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Bridgwater A.V. (2004) Future prospects for bioenergy by thermal processing of biomass. In: Conference: Future Technologies for a Sustainable Electricity System. Cambridge, November.

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Bridgwater A.V. Thermal Processing of Biomass for Energy and Chemicals. Hiroshima, Japan

Bridgwater A.V. & Jones, J. (2004) SUPERGEN - an integrated biomass and bio-energy research programme in the UK. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Coulson M and Bridgwater A.V. (2004) Fast pyrolysis of annually harvested crops for bioenergy applications. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Coulson M., Dahl J., Gansekoele. E., Bridgwater A.V. & Obernberger, I. van de Beld B, (2004) Ash characterisation of perennial bioenergy crops and effects on thermal processing. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Czernik, S. & Bridgwater A.V. (2004) Applications of Biomass Fast Pyrolysis Oil. Energy and Fuel, 18, 590-598.

Effendi A., Schuren G., Rasmusson D. & Bridgwater A.V. (2004) Lignin derived material from fractionated biomass pyrolysis oil for a bio-resin precursor. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Gyftopoulou M.E. & Bridgwater A.V. (2004) Microwave assisted preparation of pillared clay catalysts and development of a microwave hydrotreating reactor. In: Proceedings of CEM conference: Microwaves in Chemistry. London, 15-16 September.

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Minchener A., Bridgwater A.V., Nieminen M. & Georgocostas G. (2004) EU-China Biomass: Co-operation for the introduction of biomass utilisation technologies to China. In: 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. WIP-Munich and ETA-Florence. Florence, Italy.

Peacocke, G. V. C., Bridgwater, A. V. & Brammer, J. G. (2004) Techno-economic assessment of power production from the Wellman Process Engineering Ltd and BTG fast pyrolysis processes. In: Proceedings of the 6th International Conference on Science in Thermal and Chemical Biomass Conversion. Vancouver Island, Canada, 30 August – 2 September. CPL Press, Newbury, UK

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Girard P., Blin J., Bridgwater A.V. & Meier D. (2005) An assessment of bio-oil toxicity for safe handling and transportation: toxicological and ecotoxicological tests. In: Proceedings Science in Thermal and Chemical Biomass Conversion. (Ed. by A.V. Bridgwater & D.G.G. Boocock), CPL Press, Newbury., UK

Gyftopoulou M.E., Millan M., Bridgwater A.V., Dugwell D., Kandiyoti R. & Hriljac J.A. (2005) Pillared clays as catalysts for hydrocracking of heavy liquid fuels. Applied Catalysis 282, 205.

Hussain I. & Titiloye J.O. (2005) Molecular Dynamics Simulations of the Adsorption and Diffusion behaviour of Pure and Mixed Alkanes in Silicalite. Microporous and Mesoporous Materials, 85, 143-156.

Titiloye J.O. & Skipper N.T. (2005) Monte Carlo and molecular dynamics simulations of methane in potassium montmorillonite clay hydrate at elevated pressures and temperatures. Journal of Colloid and Interface Science, 282, 422-427.

EC Baltic Renewable Energy Centre (EC BREC), Warsaw, Poland



Older publications can be downloaded from the website:

<http://www.ibmer.waw.pl/ecbrec/eng/main.html>.

For recent publications, please email Lucyna Formela: lformela@ecbrec.pl

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Dam J. van, Faaij A., Lewandowski I., Rogulska M., Kunikowski G., Ragoncza A., Roman G.V., Pecznik P. & Weger J. (2004) Regional biomass potential assessment in Central and Eastern European Accession Countries, poster V1B.13, 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, Rome, Italy, May 10-14.

Gańko E., Rogulska M. & Wiśniewski G. (2004) Bioenergy in New Member States – opportunities for enlarged European Union. In: Proceedings of the 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, pp. 2354-2357. Rome, Italy, 10-14 May.

Kunikowski G., Rutkowska-Filipczak M., Pisarek M. & Rogulska M. (2004) Multicriterial analysis of bioenergy resources potential assessment with application of GIS. In: Proceedings of the 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, pp. 406-408. Rome, Italy, 10-14 May.

Oniszk-Popławska A., Jaworski Ł. (2004) Biomass in the first Europe wide Delphi study "Eurendel." In: Proceedings of the 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May.

Oniszk-Popławska A. & Zowski M. (2004) State of the art and perspectives for development of different biogas technologies in Poland. In: Proceedings of the 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection Rome, Italy, 10-14 May.

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Rogulska M., Oniszk-Popławska A., Pisarek M. & Wiśniewski G. (2004) State of the Art of Bioenergy in Poland - Barriers and Opportunities in Biomass and Agriculture: Sustainability, Markets and Policies. OECD Publications, pp.423-435, Paris, France.

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Ganko E., Ericsson K., Rosenqvist H., Pisarek M. & Nilsson L. (2005) Economic viability and regional perspectives for large-scale willow growing for energy in Poland. In the Proceedings of the 14th EU Biomass Conference and Exhibition, Biomass for Energy, Industry and Climate Protection. Paris, France, October 17 – 21. ETA-Florence, in press.



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Jungmeier G., Könighofer K., Spitzer J., Solantausta Y., Kaberger T., Oniszk-Popławska A. & Rogulska M. (2005) The possible Role of Hydrogen from woody Biomass in a future Sustainable Transportation System. In the Proceedings of the 14th EU Biomass Conference and Exhibition, Biomass for Energy, Industry and Climate Protection. Paris, France, October 17 – 21. ETA-Florence, in press.

Nilsson L., Pisarek M., Buriak J., Oniszk-Popławska A., Bućko P., Ericsson K. & Jaworski Ł. (2005) Energy Policy and the role of Bioenergy in Poland. Energy Policy. Elsevier, in press.

Pisarek M., Oniszk-Popławska A., Tymendorf Ł. & Płotkowski L. (2005) The assessment of the forestry wood potentials for energy and forecast to 2020 in Poland. In the Proceedings of the 14th EU Biomass Conference and Exhibition, Biomass for Energy, Industry and Climate Protection. Paris, France, October 17 – 21. ETA-Florence, in press.

Ericsson K., Rosenquist H., Ganko E., Pisarek M. & Nilsson L. (2006) An agro-economic analysis of willow cultivation in Poland. Biomass & Bioenergy 30, 16-27.

Energy research Centre of the Netherlands (ECN), Petten, The Netherlands

All Publications listed here are available at ECN's online Publications Library:
<http://www.ecn.nl/library/index.html>

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Bergman, P.C.A., Boersma, A.R. & Kiel, J.H.A. (2004) Torrefaction for entrained-flow gasification of biomass. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-046.

Bergman, P.C.A., Boersma, A.R., Zwart, R.W.R. & Kiel, J.H.A. (2004) Torrefaction for biomass co-firing in existing coal-fired power stations "BIOCOAL." ECN-C--05-013. ECN, Petten.

Bergman, P.C.A., Beurskens, L.W.M., Boerrigter, H., Boersma, A.R., Bos, A., Cieplik, M.K., Coda, B., Deurwaarder, E.P., Drift, A. van der, Egging, R., Hemmes, K., Horlings, F.H., Jansen, J.C., Kiel, J.H.A., Korbee, R., Lange, T.J. de, Meijden, C.M. van der; Mozaffarian, M.; Oudhuis, A.B.J., Ouweltjes, J.P., Paasen, S.V.B. van, Pels, J.R., Rabou, L.P.L.M., Ree, R. van, Reith, J.H., Rietveld, G., Thuijl, E. van, Uil, H. den, Uyterlinde, M.A., Verhoeff, F., Wilberink, R.W.A., Zessen, E. van & Zwart, R.W.R. (2004) Abstracts



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Bergman, P.C.A., Bodenstaff, H., Boerrigter, H., Boersma, A.R., Bos, A., Cieplik, M.K., Coda, B., Deurwaarder, E.P., Drift, A. van der, Groot, A. de, Hemmes, K., Horlings, H., Jansen, J.C., Kiel, J.H.A., Korbee, R., Meijden, C.M. van der; Mozaffarian, M., Oudhuis, A.B.J., Ouweltjes, J.P., Paasen, S.V.B. van, Pels, J.R., Rabou, L.P.L.M., Ree, R. van, Reith, J.H., Rietveld, G., Slort, D.J., Uil, H. den, Verhoeff, F., Wilberink, R.W.A., Zessen, E. van, & Zwart, R.W.R (2004) Contributions ECN Biomass to the '2nd World conference and technology exhibition on Biomass for Energy, Industry and Climate Protection.' 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy. 10-14 May. ECN-RX--04-029.

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Boerrigter, H., Bodenstaff, H., Slort, D., Uil, H. den & Rabou, L.P.L.M. (2004) Gas cleaning for integrated Biomass Gasification (BG) and Fischer-Tropsch (FT) systems. ECN-C--04-056 ECN, Petten.

Boerrigter, H., Deurwaarder, E.P., Bergman, P.C.A., Paasen, S.V.B. van & Ree, R. van (2004) Thermal bio-refinery; high-efficient integrated production of renewable chemicals, (transportation) fuels, and products from biomass. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-044.

Boerrigter, H., Drift, A. van der, Meijden, C.M. van der, Paasen, S.V.B. van, Pels, J.R., Rabou, L.P.L.M. & Verhoeff, F. (2004) Integrated biomass gasification and gas cleaning facility; ECN pilot-plant for biomass research. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-039. ECN Petten.

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Boerrigter, H. & Drift, A. van der (2004) Large-scale production of Fischer-Tropsch diesel from biomass: optimal gasification and gas cleaning systems. ECN-RX--04-119. ECN, Petten.

Boerrigter, H., Paasen, S.V.B. van & Bergman, P.C.A. (2004) "OLGA" Tar removal Technology. ECN-C--05-009. ECN, Petten.



Boerrigter, H., Slort, D.J. & Bodenstaff, H. (2004) Gas cleaning for integrated Biomass Gasification (BG) and Fischer-Tropsch (FT) systems; experimental demonstration of two BG-FT systems. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-041.

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Boerrigter, H., Verhoeff, F. & Jansen, J.C. (2004) Renewable energy in the paper industry in China; replacing coal by co-firing Wheat Straw Reject (WSR) in existing boilers. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-043.

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Drift, A. van der, Boerrigter, H., Coda, B., Cieplik, M.K. & Hemmes, K. (2004) Entrained flow gasification of biomass; Ash behaviour, feeding issues, system analyses. ECN-C--04-039. ECN, Petten.

Drift, A. van der & Meijden, C.M. van der. (2004) Biomass-mixtures: reduction of costs and problems with CFB gasification by using mixtures of feedstocks (in Dutch). ECN-C--04-024. ECN, Petten.

Drift, A. van der & Pels, J.R. (2004) Product gas cooling and ash removal in biomass gasification. ECN-C--04-077. ECN, Petten.

Drift, A. van der, Ree, R. van, Boerrigter, H. & Hemmes, K. (2004) Bio-syngas: key intermediate for large scale production of green fuels and chemicals. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-048.

Hemmes, K. (2004) Gasification of wet biomass / waste streams in supercritical water for the production of "green gas" (SNG), SNG/H₂, base chemicals and H₂ (In Dutch). ECN-C--04-107. ECN, Petten.



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Korbee, R. & Lensselink, J. (2004) Early Agglomeration Recognition System - EARS: From bench-scale testing to industrial prototype. ECN-C--04-052. ECN, Petten.

Mozaffarian, M.; Deurwaarder, E.P. (2004) Green gas (SNG) production by supercritical gasification of biomass. ECN-C--04-081. ECN Petten.

Mozaffarian, M., Zwart, R.W.R., Boerrigter, H. & Deurwaarder, E.P. (2004) Biomass and waste-related SNG production technologies : Technical, economic and ecological feasibility. ECN-RX--04-024. ECN, Petten.

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Pels, J.R., Drift, A. van der, Horlings, H. & Kiel, J.H.A. (2004) Mechanism for formation of carbon-rich deposition on cooler pipes in biomass gasifiers. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-040.

Pels, J.R., Nie, D.S. de, Huijgen, W.J.J. & Kiel, J.H.A. (2004) As qualities and possibilities for use by combustion of clean biomass (In Dutch). ECN-C--04-091. ECN, Petten.

Rabou, L.P.L.M. & Oudhuis, A.B.J. (2004) Biomass biochemical data in Phyllis database. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection. Rome, Italy, 10-14 May. ECN-RX--04-031.

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Reith, J.H. (2004) Renewable co-production of fine chemicals and energy from micro-algae. Public final report E.E.T. project K99005/398510-1010 (In Dutch). ECN-C--04-037. ECN, Petten.

Reith, J.H., Deurwaarder, E.P. & Curvers, A.P.W.M. (2004) Bio-offshore large-scale cultivation of seaweed in combination with off-shore windparks in the Nordsea (In Dutch) ECN-C--05-008. ECN, Petten.

Reith, J.H., Zessen, E. van, Drift, A. van der & Uil, H. den (2004) Microalgal mass cultures for co-production of fine chemicals and biofuels & water purification. ECN-RX--04-036. ECN, Petten.

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Verhoeff, F. & Meijden, C.M. van der (2004) Burner research for the combustion of low calorific ammonia rich biomass fuel gas (in Dutch). ECN-C--04-104. ECN, Petten.

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