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Resumé

[June 2009]

Born: 10 January 1939, Olean, New York, U.S.A.
Age: 70
Citizenship: United States of America
Gender: Male
Languages: English, German, Spanish, French, Russian, Latin

EDUCATION:

Bachelor of Science in Physics (cum laude), University of Notre Dame, Notre Dame, Indiana, U.S.A., 1959.
Master of Science in Electrical Engineering, Cornell University, Ithaca, New York, U.S.A., 1961. [Minor in Engineering Physics].
Doctor of Philosophy, Cornell University, Ithaca, New York, U.S.A., 1969. [Major in Electrical Engineering; Minors in Mathematics and in Business Administration].
Advanced Course for University Faculty in Electrical Power Engineering, Rensselaer Polytechnic Institute, Troy, New York, U.S.A., 1973.

HONORS:

Port and Ocean Engineering Under Arctic Conditions (POAC) Lifetime Achievement Award (2009).
Elected a Foreign Member of the Finnish Academy of Technology (1991).
Named "Engineer of the Year - Electrical" in Alaska (1973).
National Science Foundation Fellowship (1973).
New York State Regents Scholarship (1955).

PRESENT POSITIONS:

Managing Director, EnergieforschungsStiftung, (2004-present); Manager, Sackinger Properties LLC (2002-present); Emeritus Faculty in Geophysics and Electrical Engineering (1996-present), Affiliate Professor of Petroleum Engineering (2007-present), Visiting Lecturer on Intellectual Property (1995-2007), University of Alaska, Fairbanks, Alaska, USA; Senior Advisor, Fairbanks Economic Development Corporation (2006-present); Philanthropist (2006-present).

FORMERLY:

Chairman, President, and Chief Executive Officer, OBELISK Hydrocarbons (Alaska) Ltd., Fairbanks, Alaska, USA, (1994-2002). Chairman, President and Chief Executive Officer, OBELISK PlasmaConversion (Alaska) Ltd., Fairbanks, Alaska, USA, (1994-2002). Executive Vice President, Research and Technology, and Member, Board of Directors, Alaska Resources International Ltd., Anchorage, Alaska, USA (1995-1998). Faculty Member in Geophysics and Electrical Engineering, University of Alaska, Fairbanks, Alaska, U.S.A. (1970-1995); Director of Intellectual Property and Licensing (1989-1995); Chairman, Fossil Energy Research Council (1986-1988); Physical Science Coordinator, Arctic Project Office, Outer Continental Shelf Environmental Assessment Program (1980-1983); Associate Dean for Engineering Research (1975); Coordinator, Arctic Coastal Research (1973-1976); Head, Department of Electrical Engineering (1972-1975).

Adjunct Instructional Staff, Continuing Education in Engineering, University of California, Berkeley, California, U.S.A. (1981); Visiting Professor, Institute of Offshore Engineering, Heriot-Watt University, Edinburgh, Scotland, U.K. (1978); Visiting Professor, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, St. John's, Newfoundland, Canada (1977);

Senior Market Development Specialist, Television Division, Corning Glass Works, Corning, New York, U.S.A. (1969-1970); Research Physicist, Corning Glass Works, Corning, New York, U.S.A. (1966-1969); Project Engineer, Westinghouse Electric Corp., Elmira, New York, U.S.A. (1962-1966); Research Engineer, Zenith Radio Corporation, Chicago, Illinois, U.S.A. (1961-1962).

RESEARCH EXPERIENCE:

TOPICS IN RESEARCH PLANNING AND ADMINISTRATION:

- Planning, budgeting, and technical program management of 15 physical science research contracts in oceanography, meteorology, subsea permafrost, marine geology, sea ice dynamics, sea ice properties, sea ice morphology, and remote sensing of Arctic coastal regions.
- Organization and execution of synthesis meetings to summarize research results for consideration in Federal leasing decisions for Alaskan offshore oil and gas resources.
- Planning of research on sea ice dynamics and properties, and on subsea permafrost, for the National Oceanic and Atmospheric Administration Sea Grant Program, the Alaska Oil and Gas Association, the National Academy of Sciences Committee on Permafrost, the National Science Foundation, and the National Petroleum Council.

TOPICS IN GEOPHYSICS:

- Sea ice dynamics.
- Naturally-induced stresses in sea ice sheets near grounded obstacles.
- Theoretical analysis of artificially-formed sea spray ice freezing kinetics.
- Research on sea ice failure stresses.

TOPICS IN ENVIRONMENTAL MATTERS:

- Environmental regulation of petroleum operations in the North Sea.
- Environmental and regulatory aspects of Arctic offshore petroleum operations.
- Comparison of environmental laws and regulations in the USA, Canada, and the Russian Federation.

TOPICS IN RESOURCE DEVELOPMENT:

- Ice design criteria for analysis of offshore petroleum production systems.
- Planning, development, and advocacy of University research on Alaskan oil, natural gas, and coal resources.
- Considerations of resource location, assessment of quality and extent of deposits, methods of extraction, technologies for conversion of coal and natural gas into liquid fuels, and transportation infrastructure for Alaskan fossil energy resources.

TOPICS IN TECHNOLOGY TRANSFER TO UNDERDEVELOPED AREAS:

- Offshore Arctic technology review for China.
- Analysis and experiments on conversion of natural gas deposits into liquid fuels using plasma conversion technology.
- Wind energy pilot proposal for remote Alaskan locations.
- Desalination proposal for freshwater production at coastal villages by natural freezing of seawater.
- Shoreline protection in remote coastal villages by production of artificial sea spray ice/sediment barriers.
- Thermal syphons for enhanced passive cooling of foundations and walls in hot climates.

TOPICS IN MATERIALS SCIENCE:

- Adfreeze bond strength of sea ice to steel.
- Corrosion of welded steel joints in the Beaufort Sea.
- Research on sea ice failure stresses.
- Corrosion of chilled buried pipelines.

- Research and development on chemistry of metallic and nonmetallic oxides, multiple phases, discontinuous films, oxide reduction.
- Electrical properties of oxide mixtures.

TOPICS IN ELECTRICAL ENGINEERING:

- Dielectric properties of snow, ice and sea ice.
- Ionic feedback in channel electron multipliers.
- Electrical conductivity and telluric currents in permafrost soils.
- Corrosion of pipelines buried in permafrost soils.
- Corrosion protection of offshore structures in Arctic waters.
- Plasma-induced conversion of surface-adsorbed hydrocarbons.
- Cathodic protection of submarine pipelines.
- Consideration of novel methods for image sensing, flat panel television display technologies, and copying techniques.
- Electron dynamics and noise properties of channel electron multipliers.
- Responsible for development of the first inverter image intensifier containing a microchannel plate.
- Electron beam cyclotron/synchronous wave parametric amplifiers.
- Analysis of crossed-field amplifiers, transverse-wave electron beam structures, acoustical traveling-wave amplifiers.

TOPICS IN LEGAL AND ECONOMIC MATTERS:

- Operation of the University's Committee on Intellectual Property and Licensing, including the receipt and technical evaluation of invention disclosures in such diverse fields as civil engineering, mechanical engineering, mineral beneficiation, biotechnology, agricultural pest control, crop protection, fish processing, oil spill bioremediation, computer software.
- Management and oversight of attorney's preparation and prosecution of applications for patent, copyrights, and trademarks for University personnel.
- Licensing negotiations for University-owned inventions.
- Analysis of display device concepts for their ultimate performance limitations, projections of production costs, selling price ranges, and definition of market segments.
- Negotiation with potential partners for joint ventures on new products; patent licensing and trade secret considerations.
- Preparation of patent applications on electron and plasma devices.
- Economic and technical analysis of Coal-to-liquids and Gas-to-liquids production facilities.
- Economic supply, demand, and pricing analyses of global crude oil production and consumption.

BOOKS CO-AUTHORED:

- Murthy, T.K.S., W.M. Sackinger and P. Wadhams, (Eds.), (1992), Advances in Ice Technology, Computational Mechanics Publications, Southampton, 365 pp.
- Murthy, T. K. S., J.G. Paren, W.M. Sackinger and P. Wadhams, (Eds.), (1990), Ice Technology for Polar Operations, Computational Mechanics Publications, Southampton, vii + 426 pp.
- Sackinger, W.M. and M.O. Jeffries (Eds.), (1988), Port and Ocean Engineering Under Arctic Conditions, Volume I, The Geophysical Institute, University of Alaska, Fairbanks, xxvii+737 pp.
- Sackinger, W.M., M.O. Jeffries, J. L. Imm, and S. D. Treacy, (Eds.), (1988). Port and Ocean Engineering Under Arctic Conditions, Volume II (Symposium on Noise and Marine Mammals). The Geophysical Institute, University of Alaska Fairbanks, xiii + 111pp.
- Sackinger, W.M. and M.O. Jeffries, (Eds.), (1988). Port and Ocean Engineering Under Arctic Conditions, Volume III. The Geophysical Institute, University of Alaska Fairbanks, xxiv + 683pp.

COMMITTEE SERVICE:

INTERNATIONAL:

- Chairman**, International Scientific Advisory Committee, Arctic Centre, University of Lapland, Rovaniemi, Finland (1990-1995).
- President**, International Committee for Port and Ocean Engineering Under Arctic Conditions (POAC) (1983-85); Vice President, (1981-83); Member, (1978-1991).

Secretary-General, POAC International Committee (1997-2001); Acting Secretary General (1995-1997); Executive Director, POAC Regional Office for the Americas and the Pacific Rim (1987-1997).

Co-Chairman, International Conferences on Ice Technology (ITC-90; ITC 92), and Member, Scientific Advisory Committee, International Conferences on Ice Technology (ITC) (1984-1993).

Chairman, Ninth International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC-87), Fairbanks, Alaska, U.S.A. (1983-88).

Coordinator, Research Cooperation Agreement, Technical Research Centre of Finland/University of Alaska-Fairbanks, (1983-1990).

Chairman, Arrangements Committee, 4th International Conference on Permafrost, Fairbanks, Alaska, U.S.A. (1979-83).

Chairman, Technical Program, 3rd International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC-75), Fairbanks, Alaska, U.S.A. (1974-75).

Member, International Advisory Group, International Northern Sea Route Program (INSROP), [A joint programme of The Fridtjof Nansen Institute, Norway; The Central Marine Research & Design Institute, Russia; and The Ship & Ocean Foundation, Japan], Lysaker, Norway (1992-present).

Member, Technical Committee TC-118, Ice and Construction, Réunion Internationale des Laboratoires D'Essais et de Recherches sur les Matériaux et les Constructions (RILEM) (1988-1992).

Member, International Committee, International Symposia on Cold Region Development (ISCORD) (1986-1990).

Member, Le Comité Arctique International (1985-1992).

Member, International Scientific Committee, International Offshore and Navigation Conference and Exhibition (POLARTECH) (1985-present).

Member, Organizing Committee, U.S.-U.S.S.R. Workshop on Environmental Protection in Permafrost Terrain (1980).

NATIONAL:

Member, National Academy of Sciences Committee to Evaluate the Oil Spill Recovery Institute, (2002).

Member, Working Group on Implications of Global Change in Alaska and the Bering Sea Region, U. S. National Assessment of the Consequences of Global Change, University of Alaska Fairbanks, (October 1998).

Member, Editorial Board, Journal of Coastal Research (1988-1995).

Member, U.S. Dept. of Energy/State of Alaska Joint Steering Committee on the Alaska North Slope Oil Delivery System, (1989-1990).

Member, American Society of Mechanical Engineers Petroleum Division Codes and Standards Operating Committee (1983-87).

Member, Program Committee, American Society of Mechanical Engineers Offshore Mechanics and Arctic Engineering Conference (1983-87).

Member, Program Committee, Spilhaus Symposia Series, Marine Technology Society (1983-84).

Chairman, (Arctic), U.S. Department of Energy Workshop on Drilling, Offshore, and Arctic Technology, Bartlesville Energy Technology Center (1981).

Chairman, U.S. Department of Energy Workshop on Arctic Oil and Gas Recovery, Sandia Laboratories (1980).

Member, National Petroleum Council Committee on Arctic Oil and Gas Resources Production Task Group (1980-81).

Chairman, Ice Mechanics Subcommittee, American Society of Mechanical Engineers Petroleum Division Energy-sources Technology Conference (1978-81).

Member, Working Group on Under-Ocean Tunneling for Oil and Gas Recovery, U.S. National Committee on Rock Mechanics, National Academy of Sciences (1977).

Member, U.S. National Committee on Permafrost, Polar Research Board, National Academy of Sciences (1974-78).

Chairman, Working Group on Offshore Permafrost, U. S. National Committee on Permafrost, National Academy of Sciences (1974-76).

Chairman, Working Group on Ice Hazards to Offshore Oil Operations, National Oceanic and Atmospheric Administration Outer Continental Shelf Environmental Assessment Program, (1977).

Member, Program Committee, Petroleum Division American Society of Mechanical Engineers Energy Conference (1976-83).

Member, Advisory Committee to Federal Power Commission, Alaska Power Survey (1972-74).

Member, Editorial Board, Journal of Coastal Research (1988-1995).

STATE:

Member, Energy Task Force; In-State Natural Gas Distribution Task Force; Economic Issues Task Force; Interior Issues Council, Fairbanks, AK (2006-2009).

Member, Green Power Advisory Committee, Golden Valley Electric Association, Fairbanks, AK (2003-2008).

Member, Alaska Science and Engineering Advisory Commission, Office of the Governor, (1990-1994).

Director, Alaska Club, $\Sigma \Xi$, Sigma Xi, the Scientific Research Society (1988-1989).

Vice-President (1986-87); Secretary/Treasurer (1982-86); Director (1982-88), Alaska Academy of Engineering and Sciences.

Member, Transportation Research Advisory Committee, Alaska Council on Science and Technology (1979-80).

Member, Alaska Science Conference Committee, American Association for the Advancement of Science, (1976).

Member, Cold Regions Engineering Symposium Committee, American Society of Civil Engineers, (1976).

Co-Chairman, Institute of Electrical and Electronics Engineers Image and Display Conference, Corning, New York, (1970).

Chairman (1969-70), Secretary (1968-69), Elmira-Corning Section, Institute of Electrical and Electronic Engineers.

Founder and Chairman, Interior Alaska Sub-Section, Institute of Electrical and Electronic Engineers, (1972-73)

UNIVERSITY:

Member, Budget and Legislative Affairs Committee, Faculty Senate, University of Alaska Fairbanks (1990-1992).

Member, Patent Committee, University of Alaska (1989-1995).

Student Branch Counselor, University of Alaska, Institute of Electrical and Electronic Engineers, (1972-73; 1979-81).

MEMBERSHIPS & PROFESSIONAL:

Foreign Member of the Finnish Academy of Technology (1991-present).

Senior Member, (1969-2005), **Senior Life Member** (2005-present), Institute of Electrical and Electronics Engineers .

Member: Institute of Physics (London); American Geophysical Union; $\Sigma \Xi$, Sigma Xi, The Scientific Research Society.

Former Member: Licensing Executives Society; European Physical Society; American Physical Society; Association of Professional Engineers of Yukon Territory; Association of Professional Engineers of Newfoundland; International Glaciological Society.

Registered Professional Engineer: Alaska (1972-2004), Yukon Territory (1974-1995), Newfoundland (1978-1984).

Chartered Physicist in United Kingdom (1984-present).

Chartered Engineer in United Kingdom (1990-present).

CONSULTING & ADVISORY EXPERIENCE:

INTERNATIONAL:

External Doctoral Examiner, Department. of Civil Engineering, Helsinki University of Technology, Helsinki, Finland, (1992).

Advisor to Royal University of Bhutan, Thimphu, Bhutan (2005).

Advisor and Consultant to King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, (1996-2009).

Advisor to Saudi Aramco, Dhahran, Saudi Arabia (2005-2006).

Consultant to Wartsila Diesel Nederland BV (1997-98).

Advisor to China National Petroleum Corporation, Tang-gu, China, (1997).

Consultant to Technical Research Centre of Finland, Helsinki, Finland, (1983-1987).

Consultant to Swedish Polar Research Secretariat, Stockholm, Sweden, (1985-86).

Consultant to Huure Oy, Leppävirta, Finland (1984-86).

Consultant to Oy Wartsila Ab, Helsinki, Finland, (1986-88).

Advisor to Department of Ocean Engineering, Tianjin University, Tianjin, China, (1986).

Advisor to Bohai Engineering and Design Co. of Chinese National Offshore Oil Corporation, Tang-gu, China, (1986-1988).

Advisor to Nippon Steel Corporation, Research Laboratories II, Sagamihara, Tokyo, Japan, (1985-88).

Consultant to Japan National Oil Corporation, Technology Research Center, Chiba, Japan (1991-92).

NATIONAL:

Advisor to U.S. Department of Energy (1980-1990).

Consultant to U.S. Congress, Office of Technology Assessment (1984-88).

Advisor to U. S. Army Corps of Engineers, Cold Regions Research and Engineering Laboratory (1976-78).

Consultant to Lawrence Livermore National Laboratory, U. S. Department of Energy (1987).

Editor-at-Large, (Electrical Engineering, Electronics, Geophysics), Marcel Dekker, Inc., Publishers, (1977-81).

STATE:

Science Advisor, Alaska Council on Science and Technology (1981-82). Review of proposed projects in physical sciences, energy, transportation, and agriculture, including the choice of review panel experts, solicitation of reviewer's opinions, consolidation of reviewer's recommendations, and submission to the Council for funding decisions.

Consultant to: State of Alaska, Office of the Governor; Department of Transportation & Public Facilities; Department of Natural Resources (1978-1994); North Slope Borough, Alaska, (1982); Alaska Eskimo Whaling Commission, Barrow, Alaska, (1981-84); City of Kaktovik, Alaska, (1989). Fairbanks Municipal Utilities System, Fairbanks, Alaska, (1991-96); University of Alaska, Fairbanks, Alaska, (1995-98).

CORPORATE:

Alyeska Pipeline Service Co. (1979); Exxon Production Research Corp. (1978-80); Han-Padron Associates (1983-85); Science Applications International Corp. (1985-1989); Varian Associates (1985-1989); Teledyne CAE (1988); Western Gold Exploration and Mining Co. (1988); many other clients(1980-2003).

PATENTS:

"An Electrical Method for Conversion of Molecular Weights of Particulates."USA Patent No. 5,409,584 (April 25, 1995).

"Electrical Method for Conversion of Molecular Weights of Particulates."USA Patent No. 5,356,524 (October 18, 1994).

"Electrical Device for Conversion of Molecular Weights Using Dynodes,"USA Patent No. 5,141, 715 (August 25, 1992). Also issued in Canada, Australia, Japan, South Korea, Sweden, Denmark, Germany, France, Belgium, The Netherlands, Luxembourg, Switzerland, United Kingdom, Trinidad & Tobago, Bahrain, Austria, Spain, Singapore, and Italy.

"Electrical Device for Conversion of Molecular Weights" USA Patent No. 5,019,355 (May 28, 1991); Australia Patent No. 614,796 (April 28, 1992).Also issued in Canada, Australia, Japan, South Korea, Russia, Norway, Sweden, Finland, Germany, France, Belgium, The Netherlands, Luxembourg, Switzerland, United Kingdom, Latvia, Trinidad & Tobago, Bahrain, Austria, Singapore, and Italy.

"High Gain Storage Target", USA Patent No. 3,673,457 (June 27, 1972).

"Electron Multiplier Device Having an Electrical Insulating Secondary Emission Control Surface", USA Patent No. 3,449,582 (June 10, 1969).

"D.C. Pumped Crossed Field Type of Parametric Amplifier", USA Patent No. 3,234,476 (February 8, 1966).

"Plural Input Electron Beam Parametric Amplifier",USA Patent No. 3,212,017 (October 12, 1965).

PUBLICATIONS:

Publications have been co-authored with scientists and engineers from U.S.A., Canada, U.K., Finland, France, Japan, China, Russia, Norway, Denmark, Nigeria, India, Pakistan, Saudi Arabia, Lebanon.

Sackinger, W. M., "Exploitation of Intellectual Property Through Creation of New Business Organizations", Proceedings of the Workshop on Innovation and Technology Licensing, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 21 April 2009.

Sackinger, W. M., "Future Price of Energy", in: In-State Natural Gas Options Study, Interior Issues Council, Fairbanks Economic Development Corp., Fairbanks, Alaska, 5 February 2009, pp. 60-62.

- Sackinger, W. M., "Global and Alaskan Oil Demand and Supply", Proceedings of the Arctic Energy Summit Technology Conference, Anchorage, Alaska, 15-18 October 2007.
- Sackinger, W. M., "Strategies to Encourage New Small Businesses for Exploiting Innovations", Proceedings of the First Middle East Conference on Technology Transfer, Manama, Bahrain, 22-24 September 2003.
- Sackinger, W. M., "Transfer of Technology Using Trade Secrets and Knowhow", Proceedings of the First Middle East Conference on Technology Transfer, Manama, Bahrain, 22-24 September 2003.
- Redhwi, H. H., Aitani, A. M., Siddiqui, M. A.-B., Sackinger, W. M., and Hammawa, H., (2002), "Plasma Conversion of Methane, Alkanes and Co-Fed Mixtures into Light Olefins", Proceedings of 17th World Petroleum Congress, Rio de Janeiro, Brazil. Published by World Petroleum Congresses, London, 2002.
- Sackinger, W. M., (2002), "Recent Plans for Hydrocarbon Development in Alaska and Northern Canada", Proceedings of the Northern Dimension Forum, Technological Challenges for Sustainable Development in the Arctic, Kajaani, Finland, 17-18 June 2002.
- Sackinger, W. M., Redhwi, H. H., Aitani, A. M., Siddiqui, M. A.-B., and Hammawa, H., (2001), "Creation of Light Olefins from Methane and Heavy Alkanes in Low-Density Plasmas", Proceedings of Middle-East Petrotech 2001 Conference, 29-31 October, 2001, Manama, Bahrain.
- Sackinger, William, (2001), "Alaska gas offers coast power", Fairbanks Daily News-Miner, Fairbanks, Alaska, July 27, 2001, p. A-4.
- Sackinger, William, (2001), "Global aspects to Alaska gas plan", Fairbanks Daily News-Miner, Fairbanks, Alaska, February 10, 2001, p. A-4.
- Sackinger, William M., Aymen A. Kayal, and Halim Hamid Redhwi, (2000), "Patenting, Development, and Licensing Chemical Inventions of University Origin", Proceedings of 4th International Conference on Chemistry in Industry, October 30-November 1, 2000, Manama, Bahrain.
- Hamid, Halim, H. Hammawa, A. Aitani, and W. M. Sackinger, (2000), "Natural Gas Conversion to Light Olefins in Low Density Plasmas", Proceedings of 16th World Petroleum Congress, Calgary, Alberta, Canada. Published by World Petroleum Congresses, London, 2000.
- Sackinger, William, (2000), "Market delivers soaring oil and gas ride", Fairbanks Daily News-Miner, Fairbanks, Alaska, July 15, 2000, p. A-4.
- Sackinger, W. M., and P. Jumppanen, (1998), "The Role of Energy in the Arctic", Proceedings of POLARTECH 98, Nuuk, Greenland, pp. 13-19.
- Khan, M.A., M. M. Abdillahi, and W. M. Sackinger, (1997), "Role of Atomic Oxygen O(³P) in Regeneration of Catalysts", Proceedings of Saudi-French Workshop on Recent Developments in Material Processing and Modeling, Dhahran, Saudi Arabia.
- Lehmus, E., T. Kärnä, A. Tanabe, M. Yoshizawa, Y. Ishibashi, and W. M. Sackinger, (1997), "Tensile Strength of Natural Sea Ice in Horizontal Loading Parallel to the C-Axis", Proceedings of the Fourteenth International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC-97), Yokohama, Japan, pp.257-262.
- Lehmus, E., T. Kärnä, A. Tanabe, M. Yoshizawa, Y. Ishibashi, and W. M. Sackinger, (1997), "A Comparison of Compressive Strength of Columnar Natural Sea Ice Parallel and Perpendicular to the C-Axis", Proceedings of the Fourteenth International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC-97), Yokohama, Japan, pp.251-256.

- Lehmus, E., T. Kärnä, A. Tanabe, M. Yoshizawa, Y. Ishibashi, and W. M. Sackinger, (1996), "Compressive Strength of Natural Sea Ice in Horizontal Loading", Proceedings of the Sixth International Offshore and Polar Engineering Conference (ISOPE-96), Los Angeles, California, U. S. A.
- Sackinger, W. M., and V. A. Kamath, (1995), "Production of Light Olefins and Alkanes by Plasma Conversion of Methane or Heavy Feedstocks", Proceedings of the Fifth Annual Workshop on Catalysis in Refining/Petrochemicals, The Research Institute, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia., pp. 115-132.
- Christensen, F. T., P. Bruun, and W. M. Sackinger, (1995), "Ice Loading and Pileup Against Vertical and Inclined Seawalls", Chapter 14 of Wave Forces on Inclined and Vertical Wall Structures, American Society of Civil Engineers, New York, pp. 346-394.
- Morgan, B. L., R. W. Airey, W. M. Sackinger, and V. A. Kamath, (1996), "Conversion of Methane to Higher Hydrocarbons by the Interaction between Electrons and Ions at a Surface", Journal of Physics D: Applied Physics **29**, pp. 1587-1594.
- Sackinger, W. M., and V. A. Kamath, (1995), "Economics of Conversion of Northern Natural Gas into Synthetic Crude Oil and Transport to World Markets in Ice-Strengthened Ships", Proceedings of the 13th International Conference on Port and Ocean Engineering Under Arctic Conditions, Murmansk, Russia, (Volume IV, in press).
- Sackinger, W. M., and V. A. Kamath, (1995), "Plasma Conversion of Methane into Higher Hydrocarbons at Surfaces", Proceedings of the Coal Liquefaction and Gas Conversion Contractors Review Conference, U. S. Department of Energy, Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania, U.S.A., pp. 501-514.
- Sackinger, W. M., and V. A. Kamath, (1994), "Direct Conversion of Northern Natural Gas to Higher Hydrocarbon Liquids Near the Wellhead", Proceedings of POLARTECH 94, Luleå, Sweden, pp. 445-450.
- Sackinger, W. M., and O. P. Smith, (1994), "Delay of Arctic Shoreline Erosion Through the Use of Artificial Spray Ice/Sediment Massifs", Proceedings of POLARTECH 94, Luleå, Sweden, pp. 347-354.
- Lu, M., and W.M. Sackinger, (1993), "Analysis of Fracture of a Multiyear Sea Ice Floe Acting Upon a Compliant Offshore Structure", Proceedings of 12th International Conference on Port and Ocean Engineering Under Arctic Conditions, Hamburg, Germany Volume 2, pp. 547-558.
- Sackinger, W.M., and Kalabin, G., (1992), "The Use of the Environmental Impact Statement in the Optimization of Development Projects in the North," Proceedings Third Circumpolar Universities Cooperation Conference, University of Lapland, Rovaniemi, Finland.
- Sackinger, W.M., (1992), "Economics, Safety, and Environmental Sensitivities on the Northern Sea Route," Proceedings of the Northern Sea Route Expert Meeting, Tromsø, Norway, pp. 265-268.
- Sackinger, W.M., (1992), "Failure of Corrosion Protection Systems for Buried Arctic Oil and Gas Pipelines," Proceedings of POLARTECH 92, Montreal, Canada, pp. 376-385.
- Jumppanen, P., and W.M. Sackinger, (1992), "Some Alternatives for the Use of Arctic Natural Gas," Proceedings of POLARTECH 92, Montreal, Canada, pp. 386-398.
- Jumppanen, P., and W.M. Sackinger, (1992), "Technological and Economic Factors in the Future Development and Utilization of Arctic Natural Gas," Proceedings of POLARTECH 92, Montreal, Canada, pp. 399-419.
- Sackinger, W. M., (1992), "Remarks on Economic Development and Diversification in the North", Proceedings of POLARTECH 92, Supplement on Economic Development and Diversification in the North, Montreal, Canada, pp. 14, 16, 30, 34.

- Lu, M. and W.M. Sackinger, (1992), "Theoretical Analysis of Ice Island Loads Upon a Cylindrical Rigid Structure," Proceedings of 11th International Conference of the International Association of Hydraulic Research, Ice Symposium, Banff, Canada.
- Sackinger, W.M., and M. Lu, (1992), "Effect of Naturally-Occurring Ice Thickness Variations in Reducing Global Loads on Offshore Structures," Advances in Ice Technology, Computational Mechanics Publications, Southampton, United Kingdom, pp. 253-268.
- Jeffries, M.O., H.V. Serson, H.R. Krouse, and W.M. Sackinger (1991), "Ice Physical Properties, Structural Characteristics and Stratigraphy in Hobson's Choice Ice Island and Implications for the Growth History of the East Ward Hunt Ice Shelf, Canadian High Arctic," J. Glaciol., 37, pp. 247-260.
- Sackinger, W.M., V.A. Kamath, B.W. Morgan, R.W. Airey, and J.H. Sira, (1992), "Plasma-Induced Conversion of Surface-Adsorbed Hydrocarbons," Proceedings of Natural Gas Research and Development Contractors Review Meeting, U.S. Dept. of Energy, Morgantown, West Virginia, U.S.A.
- Sackinger, W.M., (1992), "The Ice Conditions in the Eastern Part of the Northern Sea Route," International Challenges 12, No. 1, pp. 75-82.
- Sackinger, W.M., (1991), "The Relationship of Telluric Currents to the Corrosion of Warm Arctic Pipelines," Proceedings of the Society of Petroleum Engineers International Arctic Technology Conference, Anchorage, Alaska, U.S.A., pp. 361-366.
- Li, F. and W.M. Sackinger, (1991), "Simulations Study of Ice Island Trajectories in the Arctic Ocean," Proceedings of the Eleventh International Conference on Port and Ocean Engineering Under Arctic Conditions, St. John's, Newfoundland, Canada, pp. 848-858.
- Lu, M. and W.M. Sackinger, (1991), "On the Strength and Deformation of a Multiyear Sea Ice Floe of Variable Thickness Acting Upon an Offshore Structure," Proceedings of the Eleventh International Conference on Port and Ocean Engineering Under Arctic Conditions, St. John's, Newfoundland, Canada, pp. 228-240.
- Sackinger, W.M. and D.C. Rogers, (1990), "Measurements of the DC Resistivity of Annual Sea Ice," in Ice Technology for Polar Operations, T.K. S. Murthy, J.G. Paren, W.M. Sackinger, and P. Wadhams (Eds.), Computational Mechanics Publications, Southampton, United Kingdom, pp. 79-90.
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