Canadian GeoExchange Coalition
Coalition canadienne de l'énergie géothermique

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For immediate release

Industry experts join CGC Technical Advisory Committee

National team to develop unified training curriculum as part of strategy to transform geothermal market

Montréal, August 10, 2005 – The Canadian GeoExchange Coalition (CGC) announced today that geothermal industry experts in Canada have joined its Technical Advisory Committee to develop a unified national training curriculum for geothermal heat pump design and installation, and to advise the CGC on related technical matters.

Members of the Technical Advisory Committee include prominent geothermal drillers, installers, designers, total energy engineers, manufacturers and distributors from across Canada. Several founders of the geothermal heat pump industry in Canada are also participating, as is the co-chair for standards from the International Ground Source Heat Pump Association.

"In unanimously accepting the invitation, industry leaders have shown strong support and recognized the urgency for the development of a unified national training programme," said Mr. Denis Tanguay, Executive Director of the CGC. "Our objective at the CGC is to help facilitate the long-awaited development of a substantive national action agenda around this issue and today, we are one step closer to realizing that goal."

In October 2004, the CGC received a mandate from Natural Resources Canada (NRCan) to *"develop and manage implementation of a geoexchange training and quality assurance initiative in collaboration with national and regional partners to set a recognized Canadian professional and industry standard for design and installation methods and training."* The government is investing $325,000 in this initiative, which also includes the development of accreditation and certification mechanism, and the CGC will invest an additional $100,000.

In the coming weeks, the CGC will begin accepting proposals for the development of the first geothermal training course to be offered in Canada. The Technical Advisory Committee will be involved in all aspects (review, discussion, design, revision and publication) of the development of the training curriculum. The initial training course will be available in mid-January 2006 and will be available for public comment shortly after its release.

The Canadian GeoExchange Coalition (CGC) acts as the industry catalyst to unite private and public sector stakeholders and expand the market for ground source heat pumps in Canada. CGC is responsible for the management of a $3.2 million agreement with Natural Resources Canada (NRCan). CGC members and NRCan are scheduled to invest over $10 million in geoexchange initiatives during three years. As the nexus of information, training, standards and public awareness, our mandate is to work with stakeholders to build the necessary infrastructure to respond to the climate change challenge, and to go beyond.

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Canadian GeoExchange Coalition (CGC)

Technical Advisory Committee Members

Glenn Kaye— New Brunswick— President, Maritime Geothermal

Glenn Kaye, President of Maritime Geothermal Ltd., a Canadian manufacturer of geothermal heat pumps, has been involved in the heat pump business since 1979. Starting as a well driller, then an installer, Glenn designed and developed the Nordic ® brand of heat pumps in 1983. Winner of the Conservation Council of New Brunswick's Milton Gregg Award in 2004, Glenn has done much to promote geothermal heating in Atlantic Canada. Under Glenn's leadership Maritime Geothermal Ltd has grown into a successful Canadian exporter with Nordic ® heat pumps operating all over the world.

Maritime Geothermal Ltd is the only Canadian manufacturer of geothermal heat pumps offering a complete line of residential and commercial systems. Based in Petitcodiac, New Brunswick, the company has been manufacturing Nordic ® heat pumps since 1983. Nordic heat pumps are available through authorized dealers within Canada and are exported throughout the world.

Claude Agouri— Québec— Président, AirTechni

Claude Agouri, founder and president of Airtechni, is a member of the *Ordre des ingénieurs du Québec*, and holds a degree in mechanical engineering from the University of Hanover, Germany. Mr. Agouri has spent all of his professional life in the Heating Ventilation and Air Conditioning (HVAC) industry. After working for the Carrier Corporation, he founded Airtechni in 1975 as a manufacturer representative for Climate Master Corporation.

Claude has played a key role in the introduction of geothermal technology in Quebec. He worked on his first residential and commercial geoexchange applications in the late 1970's at a time when little information was available on geothermal technology and its applications. His company supplied the water source heat pumps for the 1976 Olympic Village; the same heat pumps that are the basis for the geothermal heat-transfer technology.

Always in search of innovation, Claude has introduced many technologies to the Quebec market such as specialized air distribution systems, and the first assembly rooms and theatres with micro-climate air distribution in North America. For over 30 years, he has gone beyond the typical role of a manufacturer's distributor by also providing technical insight on numerous geothermal projects.

Airtechni is a leading Quebec-based distributor of world-class HVAC equipment. In 2004, Airtechni played an active role in three award winning geothermal installations in Quebec, the most prestigious of which was the Mountain Equipment Coop retail store in Montreal, winner of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) International Award of Engineering Excellence in winter 2005.

Bernard Messier, ing.—Québec— Président, GEO-ENERGIE Inc.

Mr. Messier graduated from *École Polytechnique* with a degree in Geological Engineering (géotechnique et géologie, 1978). He also holds a B.Sc. in geology from l'Université du Québec à Montréal (UQAM)(1973); received his IGSHPA installer certificate, and in 2000 earned his geothermal system designer certificate from both IGSHPA and the Association of Energy Engineers. Mr. Messier is a member of the *Ordre des ingénieurs du Québec*, as well as the Association of Professional Engineers in Ontario and Alberta. Mr. Messier has served as a chief executive officer since 1981 and co-founded GEO-Energie in 2004.

BMA GEO-ENERGIE Inc. specializes in total design and engineering of geothermal projects as well as energy-recovery projects. The company offers turnkey solutions for energy-efficiency projects that along with a performance guarantee and a finance proposal.

Claude Cormier – New Brunswick – Senior Mechanical Engineer, Roy Consultants

Claude is a senior mechanical engineer with 23 years experience. His work with Roy Consultants Group includes preliminary feasibility, design, costing, tender documents and total project management. Claude graduated from the University of Montreal's École Polytechnique in 1982 and has since designed and managed the installation of different mechanical systems in commercial buildings, hospitals, educational facilities and industrial buildings. His specialized knowledge includes mechanical engineering of HVAC, fire protection, steam and hydronic systems, water treatment, and geothermal heating systems. He is a professional engineer registered in the Province of New Brunswick, a member of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the Canadian Healthcare Engineering Society (CHES), the International Ground Source Heat Pump Association (IGSHPA). He has recently completed the IGSHPA Certified GeoExchange Designers program.

Roy Consultants is the largest bilingual engineering firm in Atlantic Canada. It won the N.B. Economic Council *'Enterprise of the Year'* award in 1994, the *'Entrepreneur of the Year'* award in 1991, the Chaleur Regional Development Commission in 2001, the NBEC *'Showcase Award for Innovation'* in 2001 and the N.B. Society of Certified Technician and Technologist *'President's Award'*, also in 2001.

Mr. Gino di Rezze, P. Eng.— Ontario—GroundHeat Systems International Inc.

A graduate of Ryerson University and the University of Akron, Ohio, Mr. di Rezze first trained and worked for General Electric as an electrical engineer. Mr. di Rezze founded GroundHeat Systems Inc. in the early 1980's. He became one of only two people in Canada to become a Certified Geothermal Designer with the Association of Energy Engineers. He is sought out internationally, participating in and consulting on projects in countries such as Poland, South Korea, Italy, China and the United States. He has been involved in some of the world's largest geothermal installations, and continues to introduce this technology to countries in need of energy management.

GroundHeat Systems International Inc. is a 100% Canadian owned company that started out mainly designing and installing systems for commercial and institutional buildings, but quickly extended to industrial and residential buildings. GroundHeat System's applications range from ice rinks to subdivisions and universities; the company actively pursues contracts of all nature.

D*avid Hatherton—Ontario—NextEnergy Inc.*

David Hatherton has been a leader in the domestic and international geothermal, renewable and energy efficiency industry for over 23 years. In 1980 he founded Earth Systems Inc., which trademarked the WaterFurnace trade name in Canada and the USA, becoming the world's largest distributor of geothermal systems. Together with Dan Ellis, now President of ClimateMaster, Mr. Hatherton expanded WaterFurnace into the US, co-founding WaterFurnace International (WFI) in 1983.

Mr. Hatherton is currently CEO of NextEnergy Inc. of Elmira ON, a purveyor of geothermal technologies in Canada with exclusive rights to ClimateMaster's line of geothermal residential products. NextEnergy is the largest implementer of residential geothermal technology in Canada through its network of over 300 dealers.
Mr. Hatherton's other major work includes: Founding Committee Member - International Ground Source Heat Pump Association (Stillwater Oklahoma); Founding President - Canadian Earth Energy Association (Ottawa); Founding Committee Member - Earth Energy Association (Washington); Founding Committee Member - Geothermal Heat Pump Consortium (Washington).

Gordon Shymko, P.Eng.—Alberta— GF Shymko & Associates

With over 22 years of experience in energy conservation and analysis, energy performance contracting, alternative energy development, and innovative building engineering, Gord Shymko is a recognized leader in energy engineering and sustainability. His in depth knowledge of all building systems is backed by many years of experience as an accomplished and creative mechanical designer. This enables him to bring a truly multi-disciplinary perspective to all of his projects.

Gord is a registered engineer in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, and the Yukon. His project portfolio represents several billion dollars in construction contracts.

As an active member of the design community, Gord provides educational and other technology transfer services to the building industry. He is frequently invited to speak and is often consulted as an expert in the field by print and broadcast media.

Dale Bateman— Alberta— President, Ener-West Geo-Energy Services; Principal, Ener-West Engineering Inc.

Dale Bateman, founder and president of Ener-West Geo-Energy Services, and founder and managing partner of Ener-West Engineering has been directly involved with geoexchange system research, design, installation and marketing since 1999. Dale's 14+ years of technical experience in the fields of commercial architecture and project management has helped him develop a professional and realistic approach to the integration of geoexchange technology and systems for both residential and commercial projects.

Dale recently served as part of the Forming Committee for the Alberta Chapter of the Canadian Green Building Council and continues to act as an advisor / consultant to several developers, builder groups and utility companies about the implementation of geoexchange and various "green" programs.

Ener-West Geo-Energy Services Inc. and Ener-West Engineering Inc., both based in Calgary, Alberta with operations in Kelowna, British Columbia, offer complete geoexchange consulting, design and contracting services to all sectors of the Alberta and British Columbia marketplace.

Stacey Bernier—British Columbia— President, Lincoln Geothermal

Mr. Stacey Bernier is a Principal with Lincoln Energy Inc. with 29 years of business experience. He has five years of experience in the HVAC industry and has been involved with geo-exchange and certified in installation and design since 2001. Stacey holds a degree in Business management and an A.I.I.C (Associate in the insurance institute of Canada) designation. He has held a number of senior and executive positions that have allowed him to develop an expansive acumen for business at all levels. Mr. Bernier has been instrumental in the design and implementation of an industry wide accreditation program, which included developing and setting industry standards. He and his team at Lincoln have designed and installed an array of projects and have developed an expertise in large open lake and ocean systems.

Geoff McDonell, P.Eng.— British Columbia— Senior Mechanical Engineer, Omicron Engineering

Geoff is a senior mechanical engineer responsible for developing institutional and sustainable projects that include complete mechanical design project management, design execution, construction services, and site inspections. He has a wide range of experience in design and construction, as well as in project management for a number of large institutional projects. He also acts as a technical reviewer for the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC) and assists in the ongoing review process currently being conducted on all practicing professional engineers in the Province of British Columbia. His specialties include very low energy, semi-passive building systems including radiant cooling, displacement ventilation and high performance building envelope design. He has been a practicing building services design engineer for over 23 years and is a LEED (**L**eadership in **E**nergy and **E**nvironmental **D**esign) Accredited Professional.

Geoff is also the author of a number of papers and articles covering radiant cooling systems, in-slab radiant systems, displacement ventilation systems and other sustainable building approaches. His paper, *"Applied Radiant Cooling and Displacement Ventilation",* was selected as one of the 15 "Best of Austin" papers presented at the First Annual USGBC Green Building Conference in Austin, Texas in November 2002. An article entitled *"Underfloor and Displacement Ventilation"* was published in the July, 2003 issue of the ASHRAE Journal. He also keeps in touch with other North American designers who are designing and building thermo-active slab systems and radiant cooling systems in order to maintain an ongoing information sharing network.

Grad Ilic, P.Eng. Dipl. Ing. Elec. Eng.—British Columbia— BC Hydro, GeoExchange BC

Grad Ilic, Vice-Chair of GeoExchangeBC, is Manager of New Technology, Demonstrations and R&D at Customer Care and Power Smart, BC Hydro, Burnaby, B.C. His many years in R&D and in the electric utility industry include management of one of North America's leading industrial conservation programs, chairing the Electric Vehicle Association of Canada and the Canadian Institute of Energy, as well as directing BC Hydro's Water and Wastewater Centre. His involvement with the Canadian GeoExchange Coalition since 2003 has helped to elevate the profile of GeoExchange BC into a major industry advocate in BC.

Mr. Lyn Ross, BES, CTech— British Columbia—Greater Vancouver Regional District, GeoExchangeBC

Mr. Ross is a founding member and present Chair of GeoExchange BC, as well as Senior Project Advisor, Policy and Planning Department with the Greater Vancouver Regional District. Mr. Ross has been directly/indirectly involved in geoexchange system installations and research since 1991 in Ontario and more recently in BC. Mr. Ross is a graduate of the University of Waterloo, obtaining an honours degree in Environmental Studies.

GeoExchange BC is a non-profit organization with a mandate to responsibly promote and represent the interests and needs of the geoexchange industry in British Columbia. GeoExchange BC has an elected board of directors and more than 160 members world wide.

Vladimir Mikler, Dipl. Eng., M.Sc.— British Columbia— Cobalt Engineering

Vladimir Mikler graduated with honours from the Slavak Technical University in Bratislava, Slovakia in 1988 with a Bachelor of Science Degree (Dipl. Eng.) in a multi-disciplinary major of Building Mechanical Systems. Subsequently in 1991, Vladimir was awarded a Fulbright Scholarship at Pennsylvania State University where he completed his graduate study in 1993 with a Master of Science (M.Sc.) in Architectural Engineering.

He is a recognized leader in geothermal systems, having designed several systems internationally. Vlad recently completed the BC Guidelines for Geo-Exchange System Design and is the Engineer-of-Record for the first constant temperature building in North America. Vladimir has over 16 years of experience in the design of energy-efficient, environmentally responsive building systems, with special expertise in low-intensity radiant slab heating and cooling, displacement and natural ventilation, and utilization of alternate energy sources.

Cobalt Engineering has developed a unique business approach in order to create critical synergies between passive building elements and active systems. With creative input at the start of a project, Cobalt helps develop fresh ways to satisfy the needs of clients and occupants, enhance environmental sustainability, and keep a tight reign on budgets and timelines.

Alan Skouby— USA— International Ground Source Heat Pump Association

Allan Skouby is currently the President of Geothermal Resources Technologies, Inc. as well as the Director of Sales and Marketing for GeoPro, Inc. He is the co-chairman of the International Ground Source Heat Pump Association's standards committee.

Mr. Skouby has been involved with ground-source heat pumps since 1981 when he went to work as an installer/service technician. In 1988, he worked for Vanguard Plastics, Inc., McPherson, KS, (currently known as Vanguard Piping Systems) where he assisted in new product development as well as full management of all their efforts involving polyethylene uses including natural gas, water service and ground-source heat pump applications. In 1995, Skouby was employed by Phillips Driscopipe, Richardson, TX (currently known as CP Chem/Performance Pipe) where he was assigned to develop and manage their ground-source heat pump marketing efforts. In 1996, he co-founded GeoPro, Inc. which is responsible for the commercial development and successful introduction of the first thermally-enhanced bentonite-based grouting material for vertical ground-coupled heat exchanger applications. In 1997, he co-founded and became President of Geothermal Resource Technologies, Inc.