Seminar:
"Carbon Capture and Storage, a Real Possibility?"
by Dr Malcolm A. Wilson, TEKMOR LLC

Date: Monday, 28 April, 2014
Time: 18.30-19.30
Location: Room 101, Building 3 (Social Center), New Campus Aglantzias, University of Cyprus

Organized by: Petroleum Engineering Program
              Energy Technologies and Sustainable Design Program
              Engineering School

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Dr. Malcolm A. Wilson

MSc (1977), PhD (1981)
Retired, President of Climate Change Solutions Inc.

Former CEO, Petroleum Technology Research Centre

University of Saskatchewan Alumni Award of Achievement (2009)

Nobel Peace Prize Contributor (2007) (awarded jointly to the International Panel on Climate Change and to Al Gore)

NSERC Synergy Award (2006) (awarded to the International Test Centre for CO2 Capture)

For more than thirty years, Dr. Malcolm Wilson has played an influential role on the world stage in the research and development of enhanced oil recovery and carbon capture and storage. In so doing, he has made Saskatchewan and Canada respected leaders in these fields. The fact that many countries seek his participation and advice in advancing their fight against climate change speaks to the recognition he receives internationally.

Malcolm received his BSc from the University of Nottingham (1972), and his MSc (1977) and PhD (1981) from the University of Saskatchewan.

Following his award of a Ph.D., Malcolm joined the provincial government in Saskatchewan where he spent 20 years. Accomplishments in this time included working with PanCanadian on the development of a major CO2 Enhanced Oil Recovery project in the province. Also during this period he was asked to provide assistance to the newly independent Ukraine. From 1995 to 2000 he visited Ukraine to provide advice to the Environment Ministry on non-renewable resource development and also hosted Ukrainian visitors to Saskatchewan to talk to government and industry on oil and gas development, regulation, fiscal management and environmental issues.

In the past few years, Malcolm has also been asked to sit on a number of advisory groups for policy development in the area of carbon capture and storage, notably for Alberta, but has also been involved in work in Saskatchewan.

One of Malcolm’s priorities is providing opportunities for the world’s top students. His face lights up when he talks about his protégé’s publishing in peer reviewed journals, presenting at conferences or winning the prestigious Nexen Scholarship. Malcolm’s ongoing connections to Ukraine led to the signing of a memorandum of understanding (MOU) between the University of Regina and the Ivano Frankivsk National Technical University of Oil and Gas, encompassing a program of student exchanges. He remains keenly interested in these
Ukrainian exchanges and ensures personal contact with the students, meeting them at the airport and engaging some to work under his tutelage with research performed for the Petroleum Technology Research Centre. He has been a visiting lecturer for the United Kingdom Energy Research Council summer school, Edinburgh, Scotland, and also at the University of Hunan, China. Through the International Energy Agency Greenhouse Gas Research & Development Programme, he co-launched, organized and supported an international summer school on climate change for a very select group of students from numerous countries, most at the graduate level. This seminar was launched in Germany (2007), but has since been held in Canada (2008), Australia (2009), Norway (2010), USA (2011) and China (2012). Students have the opportunity to work with renowned experts on a one-to-one basis. When an undergraduate Saskatchewan student won the top award in 2010, Malcolm was as proud as if the honour had gone to family.

While passionately interested in making this world a better place by reducing the effect of carbon emissions, especially through carbon capture and storage, Malcolm is also involved in research and development of clean coal, green energy such as biofuels, new waste-to-energy leading-edge pyrolysis technology, and microbial enhanced oil recovery.

In 1998, Malcolm played a significant role in the establishment of the Petroleum Technology Research Centre (PTRC) in Regina. After having served on the board, he became the CEO in January, 2011, retiring in June 2013. He also founded a new PTRC international subsidiary, PI Innovation Centre, in cooperation with a Dutch not-for-profit foundation. He is also Adjunct Professor in the Faculty of Engineering and Applied Science at the University of Regina, and was appointed Adjunct Professor at the University of Hunan, China, in 2012.

Malcolm was the Director of the Office of Energy and Environment at the University of Regina from 2000 - 2010, prior to which he worked for Saskatchewan Energy and Mines for twenty years. He was instrumental in the creation of the IEAGHG Weyburn-Midale CO2 Monitoring and Storage Project, a world recognised CO2 storage research project, including editing the final report of phase one. In the fall of 2012, another PTRC project was responsible for an historic event, the drilling of the deepest well in Saskatchewan's history: 3396 metres. Malcolm was a member of Working Group III of the Intergovernmental Panel on Climate Change (IPCC), the scientific team awarded the 2007 Nobel Peace Prize jointly with Al Gore, and for which Malcolm was lead author on the IPCC Special Report on Carbon Dioxide Capture and Storage. He is the former Director of the International Test Centre for CO2 Capture (ITC), as well as the founder and first CEO of the International Performance Assessment Centre for Geological Storage of CO2 (IPAC-CO2), a global network established to focus on risk management. He also founded the Prairie Adaptation Research Collaborative (PARC), serving as its first head. He is a member of the Board of Directors for Canada-Ukraine Centre, Inc. (CUC) and principal contributor to the technology transfer project with Ukraine.

For many years, Malcolm has been one of two Canadian representatives to the International Energy Agency (IEA) Greenhouse Gas R&D Programme, where he also serves as vice-chair of the IEA Enhanced Oil Recovery Implementing Agreement. He is on the science advisory boards of two major European CO2 storage projects, RISCS and CATO-2, a Dutch national program. More recently, he has been asked to sit as a member of the International Advisory Board for a new Energy Institute at the University of Groningen, Netherlands. In addition, he has been a project reviewer for several leading carbon capture and storage programs, including the CO2 Cooperative Research Centre in Australia and the United States Regional Partnership Program. He was an advisor to CO2Sink and CO2GeoNet, former EU programs. Malcolm
has led the development of a number of active MOUs to increase collaboration between Saskatchewan and other universities and research groups. He chaired a side event at the United Nations Conference of the Parties, Poznan, Poland, in December, 2008. He has organised major international conferences, including the 2004 Greenhouse Gas Control Technology Conference in Vancouver and the International Energy Agency Enhanced Oil Recovery Conference, 2012, in Saskatchewan. In 1991, he initiated the Williston Basin Petroleum Conference, a very successful annual meeting between Saskatchewan and North Dakota. In 2012, it boasted over 4,000 participants and over 2,000 in 2013.

Springboard West Innovations was Malcolm’s brainchild. Springboard assists young entrepreneurs to take leading-edge technology into the market place. Pilot testing of the concept took place at the University of Regina, and Springboard also has offices at the University of Saskatchewan.

Malcolm vigorously pursues major funding to boost the Saskatchewan economy, including more than $20 million for phase one of the Weyburn Project, $11 million for the International Test Centre for CO2 Capture and $6 million for PTRC. For IPAC-CO2, he secured start-up funding of $14 million and for Springboard West, $6 million. Attracting financial support for Saskatchewan remains a critical issue for him.

In 2009, Malcolm was awarded the University of Saskatchewan Alumni Award of Achievement for outstanding contributions to profession, community and the University of Saskatchewan. In the same year, Saskatchewan Business Magazine named him one of Saskatchewan’s ten most influential men. He was the joint winner of the 2006 Natural Sciences and Engineering Research Council of Canada (NSERC) Synergy Award for his work with ITC. Malcolm enjoys being invited to address community groups and schools. He participates as a volunteer Board member with the Canada Ukraine Centre, initiating and supporting joint social and science ventures between Canada and Ukraine. He is active in assisting new Canadians to achieve success through a variety of supportive activities. When he does have a few ‘spare’ moments, he can be found in renovation activities, deep in a science fiction novel with an adopted fox terrier on his lap, attending a Saskatoon opera with friends or in automotive pursuits with his son, Niall, a Saskatchewan-based project engineer in the oil and gas industry. He brings balance to his life through attending Niall’s autocross races, spending grimy moments under the hood, or setting off on a Sunday drive in his yellow 1974 Porsche. Malcolm is a lifetime member of the Regina Humane Society and of the Saskatchewan Archaeological Society.