

Short CV notice of Professor Nicolas Abatzoglou, Ph.D, Eng.

Dr. Nicolas Abatzoglou is full professor and has served as Chairman/Head of the Department of Chemical & Biotechnological Engineering of the Université de Sherbrooke (Dec. 2008- Dec. 2012). He is also Adjunct Professor at the University of Saskatchewan, Department of Chemical Engineering. He is a specialist in *Process Engineering involving Thermochemical & Catalytic conversion as well as particulate systems in reactive and non-reactive environments*. He is the Director of the PIFIR/UdeS Research Centre **GREEN-TPV** (Groupe de Recherche en Énergie/Environnement-Technologies et Procédés Verts).

Since May 2008, he is the holder of the **Pfizer Industrial Research Chair in Process Analytical Technologies (PAT) in Pharmaceutical Engineering**.

He is the **Leader of Thermo-Chemical Conversion Theme** in Canada's Network of Centers of Excellence **BioFuelNet** on **Biorefining** which has started its activities recently with a funding of 25M\$ for 5 years.

He is also the **Leader of the Fuel Preparation Theme in SOFC Canada Network** operated with a funding of 5M\$ over 5 years (2008-2013). His activities produced the only patent of the Network.

He is **co-founder** of the company **Enerkem Inc.**, a spin-off of the Université de Sherbrooke. Enerkem commercializes technologies in the field of energy from renewable resources (i.e. biomass and waste streams gasification; cellulosic ethanol).

He has a career of many years at both the academic and industrial levels. He represented Canada at the International Energy Agency (Gasification Task) from 1997-2001 and was the secretary of the Board of Directors and the Executive Committee of the AQME from 1996-2000. His research activities during the six last years are:

- ❑ Particulate systems in non-reactive environments: dry powder processing
- ❑ Steam and dry reforming of methane, ethanol, diesel and biofuels.
- ❑ New Fischer-Tropsch Synthesis nanocatalytic formulations for the production of Biofuels (Green Diesel and Higher Alcohols) from biosyngas and biogas.
- ❑ Process Analytical Technologies (PAT) in Pharmaceutical Engineering
- ❑ Carbon sequestration through CO₂ (dry) reforming.
- ❑ Biogas purification using granular adsorbents.

His production as researcher includes a hundred of publications in scientific reviews, international conferences, plenary and invited lectures, patents and three book chapters. He currently supervises or co-supervises 10 graduate students and 3 undergraduate students in specialty projects or training sessions. His professional experience as engineer spreads over a dozen of years. He is member of the BioFuelNet and SOFC Canadian Networks. He is official reviewer of research grants/funding programs in Canada, EU and Asia countries. He has received a dozen of distinctions and awards both for his teaching and research achievements.

Prof. Abatzoglou is married with Eleni and has two children (daughter and son; both MD surgeons). He is trilingual (Greek-French-English-) and knowledgeable in Spanish. He has also a considerable social contribution in cultural associations and social causes and believes that happiness cannot be reached without equilibrium of all life components.