

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

Dr. Nicolas Abatzoglou is full professor and Chairman of the Department of Chemical & Biotechnological Engineering of the Université de Sherbrooke. 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 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 a book chapter. 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 many distinctions and awards both for his teaching and research achievements.

Prof. Abatzoglou is trilingual (French-English-Greek) and knowledgeable in Spanish.