IMCN SEMINAR

Dr. Pierre CHEVALIER
Dr. François de BUYL
Dr. Frédéric GUBBELS

Dow Corning Europe s.a.

IMCN SEMINAR

«The funny world of Si\textsuperscript{28} licones: Why they are useful everywhere, from automotive headlamps to skyscrapers’ glazing?»

Friday 24 November 2017 – 02.00 pm
Auditorium BARB 92
Place Ste. Barbe – Louvain-La-Neuve

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The last 2 centuries have been the era of fossil energies from coal to oil leading to repeated discoveries in the development of organic derivatives through carbon chemistries. Yet the turn of the millennium is setting new trends away from commodity plastics for more environmentally, friendly and sustainable alternatives. Other element and chemistries kept almost unnoticed in the past are having their turn in History. The unlimited abundance of Silicon from the earth crust has led to the development of specific chemistries essentially since World War II at the boundaries of traditional organic and inorganic chemistries filling the gap in performance with peculiar Si-based materials. We wish to rise here the awareness of silicon chemistry, organometallic materials, performance and applications from photovoltaics for renewable energies to LED lighting and high performance enabling sealants for ever higher building designs defeating physics.

BIOGRAPHY

The 3 talks will jointly be presented by P. Chevalier, F. de Buyl and F. Gubbels gathering more than 60 cumulative years of experience at Dow Silicones formerly known as Dow Corning in Si Research and Development of innovative applied solutions in a wide variety of industries.

Pierre Chevalier is a Principal Research Scientist responsible for developing new release coatings for the pressure sensitive adhesive and general release industries. Pierre has a Chemical Engineering diploma from ENSCMu, France and a PhD in OrganoSilicon chemistry (1996) with Prof. R.J.P Corriu from the University of Montpellier

Francois de Buyl is a senior Technical Service & Development Scientist responsible for the European market of LED lighting, lamps & luminaires applications of silicones. François received a PhD in Organometallic Chemistry from University of Brussels, Belgium (1991) and an MSc in Advanced Material Sciences from the University of Surrey, UK (2003). He joined Dow Corning in Seneffe in 1991 and worked on the development and applications of silicone sealant & adhesives, organosilanes, thermoplastics, rubbers reinforcements & coatings.

Frederic Gubbels is developing a new generation of condensation cure silicone elastomers at Dow. Fred owns a PhD in polymer Science from the CERM (Liège) and spent more than 20 years in development and commercialization of silicone materials within Dow Corning in building and construction and in electronics