

## Polymeric Materials- “the heart and soul” of coating materials, composite materials and even concrete

### Abstract

The presentation will focus on introducing POLYMERS and their uses in everyday life industrial products such as **coating materials, composite materials and even concrete**. Polymers nomenclature and main properties (molecular weight and molecular weight distribution/polydispersity index) will be explained, as they can be subdivided into several types, according to their **structure, properties and manufacturing process**.

Controlling the polymerisation process can be a challenge at industrial level and this is nowadays overcome through so called **Living Controlled Polymerisation LCP** techniques.

How specific polymers (**acrylics, epoxy, polyurethanes etc**) can be formulated into **coatings** (resins, additives, pigment concentrates), lightweight **composite materials** and even concrete (**polymeric admixtures**) will be highlighted in a few formulation guidelines that will be explained.

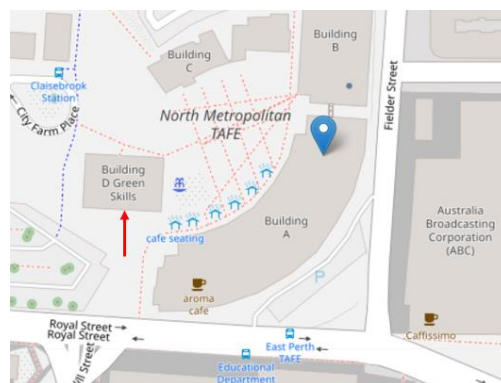
### About the Presenter:

Bogdan Dana is a Chemical Engineer/Industrial Chemist who is holding a PhD in Chemistry. Born in Romania, he studied Polymers Chemistry in Bucharest, then he did a MSc degree at Warwick University in England and completed his PhD at Otago University, in Dunedin, New Zealand. He has been working since 1993 with polymers, resins, coating materials, composite materials, concrete and pigments. He has been actively involved in the synthesis, testing, approval, Quality Control and manufacturing of all these materials and has an appetite for developing and testing new products.

Bogdan moved to Perth in 2006 where he now works for [TECHT](#) as a Senior Engineer- Materials and Corrosion, after being involved for nearly two decades with coating materials, pigments, composite materials and concrete in various technical roles.

**Time:** Finger food and refreshments start at 6.00pm, presentation commences at 6.30pm  
North Metropolitan TAFE 140 Royal St (cnr Fielder St), East Perth

### Building D



**Cost:** MA Members \$20, Non-Members \$25  
**RSVP:** By Monday 12 pm on Monday 13<sup>th</sup> of May 2024

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