

Mar 2023 speaking event plus dinner

- Title:** Research Advancements On Traditional & Engineered Materials For Structural Applications
- Speaker:** Professor Mahmud Ashraf, PhD, DIC. MASI.
- Background:** Prof of Structural Engineering started his engineering and research journey which commenced at The Imperial College, London and spanning across the globe from UK, Bangladesh, China to Australia, from UQ, UNSW and now at Deakin University
- Date:** 23rd March 2023, Thursday
- Start/End:** 6:30pm – 7:30pm
- AGM prior:** 6:00pm
- Registration:** 5:30pm
- Event type:** Technology learning and networking.
- Topic:** Prof Mahmud will share with us his technological research and development covering new strain-based design concept for structural stainless steel to exploit its nonlinear material behaviour, a technique known as “The Continuous Strength Method” and widely used for thin-walled structures produced from nonlinear metallic materials. He will cover research on metallic structures including 3D printed metallic microlattice materials. He will also provide an insight into engineered bio-composite materials (predominantly engineered bamboo) carried out with Nanjing Forestry University, China). While at Deakin University, Prof Mahmud collaborated with our Australian Forest and Wood Industry with research in engineered timber including cross laminated timber, fracture properties of sawn timber and glued timber, mechanical properties of densified timber, structural design of engineered bamboo etc
- Prof Mahmud will also highlight other innovative exciting and emerging technologies outcomes on various types of concrete used in structural engineering including corrosion free geopolymers concrete as well as on the potential use of industrial waste in concrete, 3D printing of biodegradable materials for coastal restoration and 3D printing of glass for engineering applications.
- CPD hours:** 1.0
- Cost:** All members and their partners/spouse = \$40 per head
Student-members = \$30 per head
Non-members = \$50.00 per head
Cost includes 2 course dinner.
For special dietary requirements please ensure to send an email to Dennis regarding dietary requirements when making payment.
Buy your own drinks will be at bar prices.
- Venue:** Learning Professionals (previously known as Scottish Chiefs Tavern)
99-101 Corio Street, Geelong, 3220

- Parking:** Street parking along both Corio Street and Brougham Street and is free after hrs as per City of Geelong parking rules.
- Booking:** To secure your place please pay by EFT directly as below. Please book and pay before the 17th Mar 2023 as catering for numbers are important.
- Payment:** EFT to bank directly
BSB: 633-000
Acc No: 173185653
Please ensure to insert your surname and initial in payment reference otherwise we will not be able to note where payment has come from and cannot list you as an attendee. Tax Invoice can be provided for tax deduction purposes. Please inform Dennis what name the tax invoice is to be made out to if different to payee.
- Contact:** Dennis Clarke 0410 637507 – email: denjan6256.dc@gmail.com
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