



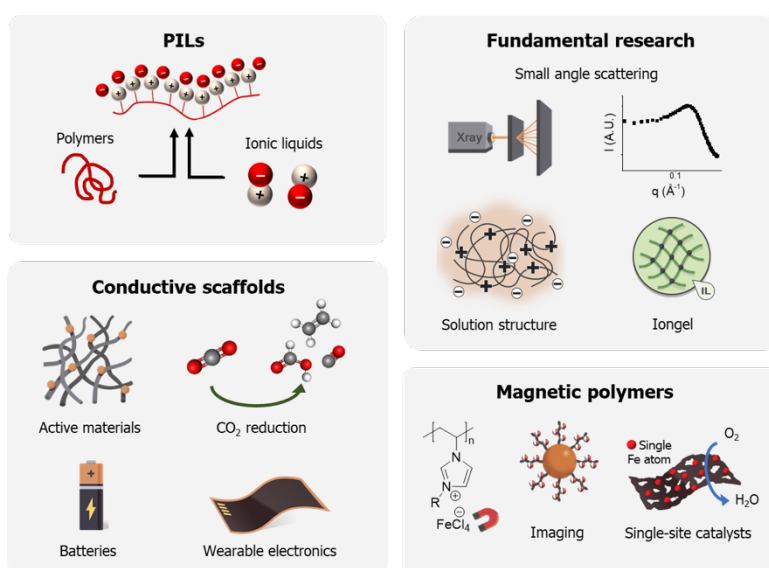
**Wolfson Department of Chemical Engineering Seminar
Lecture Hall 6, Wolfson Department of Chemical Engineering,
Wednesday, November 20th, 2019 at 13:30**

Poly(ionic liquid)s as designer polyelectrolytes

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Growing energy demands and environmental concerns require the scientific community to rise to the challenge and develop not only new devices but also new materials. Poly(ionic liquid)s (PILs) could contribute to the breakthrough needed for these fields. PILs are a class of polymers composed of ionic liquid monomers, combining the useful properties of ionic liquids, such as ionic conductivity and carbon-forming abilities, with the processability and mechanical stability of polymers. PILs have been examined for use as ion conductors, CO₂ sorbents, dispersants, gas separation membranes, nanostructured functional materials, and more. In the talk I will illustrate how the chemical flexibility of PILs, arising from the numerous possible combinations of anions and cations, can be harnessed for fundamental polyelectrolyte research, generation of magnetic polymers, and design of metal-free electrically conductive scaffolds.



Refreshments will be served at 13:15