

CAMURE11 and ISMR10 Plenary Talk

Waste biomass to biogas via cavitation and anaerobic digestion

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## **Curriculum Vitae: Vivek V. Ranade**

Vivek Ranade is a Professor of Chemical Engineering at the School of Chemistry and Chemical Engineering of Queen's University Belfast. His research focus is on developing insights, innovations & intensified solutions for sustainable energy, water and chemicals. He uses computational flow modelling, hydrodynamic cavitation and MAGIC (modular, agile, intensified & continuous) processes to achieve this. Before moving to Queen's, he led chemical engineering at CSIR - National Chemical Laboratory, Pune, India. He has contributed significantly to chemical engineering science and practice. He has developed several performance enhancement solutions, software products and fluidic devices for variety of applications which are commercialized. He developed new insights and methodologies for process intensification. He is an Associate Editor of 'Industrial & Engineering Chemistry Research' and serves on editorial boards of 'Chemical Engineering Research & Design' and 'Indian Chemical Engineer' journals. He is a recipient of numerous awards including highest Indian Scientific award Shanti Swarup Bhatnagar award for scientists under 45 years. He is a fellow of IChemE UK, Indian National Academy Sciences, Indian National Academy of Engineering and Indian Academy of Sciences. Published more than 150 papers (> 7000 citations, h index=49: from Google Scholar) and 6 books (on computational flow modelling, combustion, trickle bed reactors, water treatment and process intensification). Co-inventor of more than 20 patents. Co-founded two technology companies: Tridiagonal Solutions ([www.tridiagonal.com](http://www.tridiagonal.com)) and VIVIRA Process Technologies ([www.vivira.in](http://www.vivira.in)).

More information may be found at:

<http://go.qub.ac.uk/ranade>; [https://en.wikipedia.org/wiki/Vivek\\_Ranade](https://en.wikipedia.org/wiki/Vivek_Ranade)

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