



Process System Engineering for Sustainable Product-Process Engineering, Evaluation and Design

2020 has been a challenge in many ways. Besides the dangerous effects and tragic consequences of catching the COVID-19 virus, personal survival as well as company survival were major issues that we had to tackle. I am happy to report, we all survived and our company actually managed to make further advances:

- Successfully completed several industrial projects in China, Middle East and USA;
- Started new industrial projects that will keep us busy for most of 2021;
- Added new software products (*ProREFD*) to our PSE for SPEED software package*;
- Exploited new opportunities for virtual lectures, workshops and special short courses;
- Sponsored and helped in the organization of ICChE 2020 at BUET, Bangladesh (19-22 Dec);
- Continued research collaboration with partners from many universities in many countries. Published more than 15 peer-reviewed journal articles with “PSE for SPEED” affiliation.

Contact us if you are interested in

- commercial feasibility of new processing ideas; new chemicals-based products; retrofit or intensification options; fast, reliable and reasonably priced solution; and many more;
- software tools for data (properties of solvents, fragrances, ionic liquids, refrigerants, ...); estimated properties of pure compounds and/or mixtures; process flowsheet synthesis-design (including automatic creation of input files for commercial process simulators); model development; chemical product design; and, tailor-made software tool customized for your needs;
- educational versions of our software, free of charge, for use in education and non-commercial research purposes. Visit the link for more details: (<https://www.pseforspeed.com>)



PSE for SPEED personnel: Thai office team (top left: Arisa & Nichakorn; bottom left: Dr. Areerat; top right: Orakotch & Kornkanok; bottom right: Natchanon; Inserts: Dr Tula (center) and Dr Zhang (right)

Dr. Anjan K Tula (Zhejiang University) and Dr. Lei Zhang (Dalian University of Technology) continues to serve as sub-contracted consultants for industrial projects and in PSE for SPEED research projects, where Prof Fengqi You (Cornell University), Prof Jay H Lee (KAIST), Prof Suttichai Assabumrungrat (Chulalongkorn University) and Prof Mario Eden (Auburn University) have also contributed.

Rafiqul Gani
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* **PSE for SPEED software package** consists of **ProCAPE** (property prediction); **ProCAPD** (chemical product design); **ProCAFD** (process flowsheet synthesis-design-analysis); **ProCACD** (process control toolbox); **ProREFD** (*refrigerant selection and process verification*); **ECON** (process economic analysis); **LCSOFT** (LCA assessment); **MoT** (modelling toolbox) & **ICAS** (integrated computer-aided system) – covering a wide range of application areas & problems. A new tool on Chemical Substitution is under development. Test versions of any of the above tools will be provided on request.