



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Jean-Yves CLAVIER

Type (Academic or Industrial): Industrial

Country: France

Leadership position in the COST: WG1 leader on CA18224

Working Group in which you are involved: WG1 and WG2

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Laboratory/Company: Sup Eng , Paris/France

Laboratory/Company info (limited to 400 characters):

Created in 2016 and with more than 30 years of experience in high pressure and supercritical fluid applications, Sup Eng is partnering with end users to help with:

- Supercritical Fluid process development from feasibility to industrialisation. Review and prospective studies, experimental tests and numerical simulations, large scale demonstration and product launching, product and process optimization, economic and environmental impact evaluation,
- System design and construction, Basic and detailed engineering, project management, construction support, test and commissioning, training.

Link to the home page of the Laboratory/Company: <https://supercriticalfluid.net>

Fields of expertise (limited to 400 characters):

- Chemical engineering – Process development and optimisation
- High pressure system design and construction
- Project management
- Supercritical Fluid process and application development
- Industrialisation – Economical estimation / Technology assessment

5 Main publications or patents:

- Reviews on applications for food, cosmetic, pharmaceutical, medical devices, polymer, electronic, valuable product recovery from secondary products. For more detail see <https://supercriticalfluid.net>
- WO2018007740A1 - Method for continuous aerogel production

Collaborations:

- Universities for thermodynamic studies, process simulation and early development stages
- KEEY, Actif Precieux as examples of technology and product development platforms
- Main player companies in cosmetic, pharma, food ingredients, polymers, energy and fine chemistry fields for industrialization

Facilities:



- Supercritical Fluid technology process development platform with equipment from 0,2 to 500 liters - Batch and continuous processing – Extraction, reaction, crystallization, drying, sterilization, fractionation and purification,
- Simulation and process development software and tools
- Process Engineering and High pressure equipment design resources