



ENGINEERING SERVICES IN CHEMICAL AND FOOD TECHNOLOGY.

Process engineering optimization and development of processes, technology sections and production lines with regard to:

- Production costs (reduction)
- Energy consumption (decrease)
- Capacity increase (scale-up)
- Quality of products (increase)
- Development of new products
- Separation processes and relation between reactions / reactors and downstream / product purification:
 - Evaporation • Distillation • Rectification
 - Drying • Absorption • Quenching
- New process balances and flow-sheeting of the technologies (fingerprint), process models for the optimization of processes
- Bottlenecking and master plans for further development of the companies (regarding capacity increase, product quality or production costs – Primary and secondary energy)
- Studies and development plans for the above topics

SEMINARS, TRAINING AND FURTHER EDUCATION.

Process-oriented seminars for specialists, tailored to the needs of the companies, focused on:

- Chemistry
- chemical engineering
- Basic operations of chemical and food chemistry
- Process technology
- Special topics for process control
- Process safety, responsible care, correct manufacturing practice
- Evaluation of process data, statistics, characteristic process variables
- Further education in selected topics for trainees and career changers, such as process engineers, to highly qualified specialists

TECHNICAL TRANSLATIONS: GERMAN-ENGLISH-CZECH.

- Technical text translations from German-English-Czech for chemical and food industries:
 - Operating instructions
 - Product specifications
 - Advertising documents
 - Process overviews
- Patent searches and patent law, overview of claims, judging of competitors processes:
 - Professional assessment
 - Legal assessment



OUR REFERENCES: **HEXION, UK** Long-term consulting in technology development Design of the production plant Technology of chemical specialties and the manufacturing of special products more than 5 projects **AFROFERT GROUP, CZ** Long-term consulting in technology development more than 10 projects **LEIBNIZ INSITUTE FOR APPLIED CATALYSIS, GERMANY** Consulting and engineering services in process design and plant development with regard to chemical process engineering (catalytical processes) 6 projects in **ORLEN, CZ** collaboration in project development in the largest refinery of **CZ GIANT, AG** reaction design and kinetics of CO₂-based FT synthesis for diesel production coupled with the downstream design of the technology (patented)

YOUR CONSULTANTS

Jan Martinec, Ph.D. (Engineer / Managing director)
☎ +49 171 19 44 257
@ jan.martinec@mk-industrieservice-leuna.de

Mirka Dědičová, Bc. et Bc. (Order acceptance)
☎ +49 151 4482 82 69
@ mirka.dedicova@mk-industrieservice-leuna.de