

Selected Topics in Experimental Design and Chemometrics

Prof. Tadeusz Górecki

University of Waterloo

Course Outline

- Evaluation of sources of variation in data (analysis of variance)
- Calibration
- Reliability and drift
- Sensitivity and limit of detection
- Experimental design
 - The origins of experimental design
 - Block designs
 - Latin square designs
 - Graeco-Latin square designs
 - Hyper-Graeco-Latin squares
 - Factorial designs
 - Fractional factorial designs
 - Composite designs
 - Mixture designs
 - Placket-Burman design
- Experimental optimization
 - Response surfaces
 - Sequential approach
 - Evolutionary operation

Simplex optimization

Termin	Dzień tygodnia	Godzina	Miejsce
01.10.2012	Poniedziałek	9.15 – 12.00	LUWR
02.10.2012	Wtorek	9.15 – 12.00	LUWR
03.10.2012	Środa	9.15 – 12.00	LUWR
04.10.2012	Czwartek	9.15 – 12.00	LUWR
05.10.2012	Piątek	9.15 – 12.00	LUWR