Capillary Zone Electrophoresis

Schedule:

Week 1: Introduction, history, theoretical foundations

Week 2: Theoretical foundations

Week 3: Causes and effects of zone broadening

Week 4: Structure and operation of HPCE instruments (capillaries, sample introduction)

Week 5: Structure and operation of HPCE instruments (detection)

Week 6: Principles of optimizing capillary zone electrophoresis methods

Week 7: CZE separations in capillaries with modified surfaces

Week 8: CZE for the separation of small ions and proteins

Week 9: Other CE techniques: MEKC, CGE, CITP, CIEF, CEC, coupled techniques

Week 10: Applications and expected trends

Week 11: Process of developing CZE methods

Week 12: Evaluation of electropherograms

Week 13: Validation of electrophoretic measurements