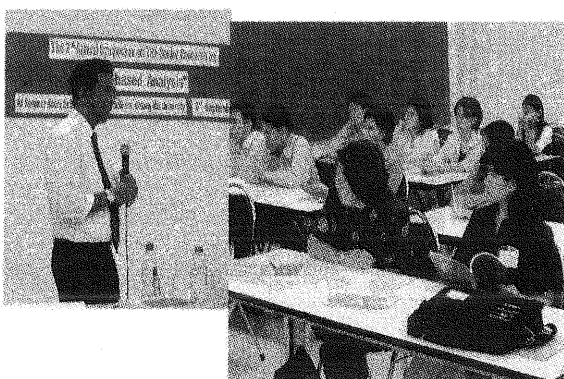
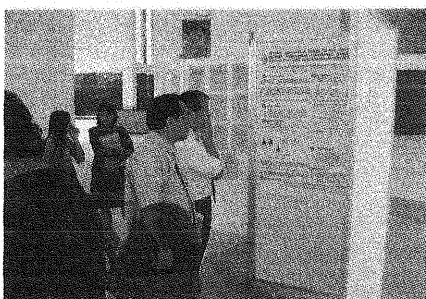


**Report on the 2nd Annual Symposium on TRF Senior Research Scholar on Flow-based Analysis,
Chiang Mai, Thailand, 6 September 2003**

A one-day symposium was organized with objectives: (1) to report research progress in the past years, especially the last year of the grant on the Thailand Research Fund (TRF) Senior Research Scholar (Kate Grudpan) on "Development of Flow-based Analysis" and (2) to open opportunities for discussion/exchange ideas and information in the research field among those who are in-and outside the group of the TRF Senior Research Scholar Grant.



The symposium invited 2 plenary lectures: "Flow injection analysis for determination of trace air pollutants" by Prof. Dr. Tadao Sakai, Editor-in-chief, JAFIA, Aichi Institute of Technology and "Ultratrace and trace determination with flow-based techniques" by Prof. Dr. Shiji Motomizu, President of JAFIA, Okayama University. There were 70 participants including faculty members, researchers and students from 10 universities with 30 contribution papers which were presented in poster format. Some of the authors were invited to present orally for brief concepts. This was aimed for more discussion and interaction among those who are in the same interests to meet maximum benefit at posters.



Some of the presentations were given by graduate students (master and doctoral). Some recent works on clinical analysis were reported, for examples, flow based ion exchange micro-column system for screening of thalassemia and hemoglobinopathies, a flow-based system to assay specific proteoglycans. Some developments on instrumentation were discussed. They included automated systems for paracetamol; bead injection combining with flow injection system ; an economical alternative for determination of some trace metals, boron doped -diamond thin film electrode in FI system; pervaporation for high speed GC for volatile organic compounds, and dynamic surface tension detector for flow analysis. Various applications were involved such as release of metal ions from contaminated soil in mining area to environment by humic acid colloids; phosphate contents in fertilizer and soil by stopped FI-Analyzer, iodide/iodine contents in various types of samples.

The enjoying and easy environment with good academic atmosphere encouraged the interaction among students, newer and older generations leading to build up relationship for the young and more senior researchers.

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