

学会情報

上智大学工学部一般科学研究室 友田正子

聖マリアンナ医科大学麻酔学教室 内田和秀

日本薬学会九州支部第14回 1991年 7月 6日 (福岡)
コロキウム

固定化酵素-フローインジェクション法による食品成分分析
(九大農) 松本 清

第28回化学関連支部合同九州支部大会 1991年 7月12日 (福岡)

D-4 陰イオン性界面活性剤によるアクリジンオレンジ-10-ドデシルブ
ロマイドの蛍光消光を利用する陽イオン性界面活性剤のFIA
(有明高専, 九州大工, 九大工) 正留 隆, 大浦博樹, 石橋信彦

1991年分析機器と解析システムに関 1991年 8月28日 (千葉)
する東京討論会

C 08 パイロヒドロリシスとイオン電極を用いたフローインジェクシ
オン分析法による超微量フッ素の測定
(岩手医大, 堀場) 板井一好, 角田文男, 池田昌彦

第5回国際フロー分析会議 1991年 8月21~24日 (熊本)
(FLOW ANALYSIS V)

I-1 Flow-Through Chemical Sensors Based on the Integration of
Separation and Detection.

(Washington Univ., U.S.A.) J. Ruzicka

I-2 Bioanalysis Using Flow Injection System (Tentative).

(Cordoba Univ., Spain) G. Johansson

LI-1 Multisight Detection in Flow Analysis Part 1. Commutation
for Achievement of Detector Leaping.

(Centro de Energy Nuclear na Agriculture, Porto Univ.,
Brasil, Portugal) H. Bergamin Filho, E.G.A. Zagatto, S.M.
B. Brienza, M.A.Z. Arruda, A.R.A. Nogueira, J.L.F. Costa
Lima

- L1-2 Error-Compensating Approach for Flow-Injection Systems.
(Purdue Univ., U.S.A.) K.L. Pardue, J. Jorden
- L1-3 Study of Sample Injection Technology for On-Line FIA and
Its Applications.
(Northeast Power Engineering Inst., China) H. Zhang, W.
Cheng, F. Teng, H. Pan
- L1-4 Membrane Based Gas-Sampling Coupled with Continuous
Monitoring Using Flow Injection Analysis.
(Tech. Univ. Berlin, Germany) W. Frenzel
- L1-5 New Approach to Coupling FIA and HPLC.
(Cordoba Univ., Spain) M.D. Luque de Castro
- L1-6 The Use of Flow Injection Analysis (FIA) in the Evaluation
of Supported Liquid Membranes (SLM).
(Pretoria Univ., South Africa)
- P1-1 Determination of Selenium by Flow Injection Analysis with
On-Line Preconcentration.
(Kyoto Univ., Kyoto Pharm. Univ., Japan) E. Aoyama, K.
Akamatsu, T. Nakagawa, H. Tanaka
- P1-2 Determination of Low Level of Ammonium in Natural Waters
Employing Preconcentration by Cation Exchange Resin in
Flow Injection Analysis.
(Centro de Energia Nuclear na Agric. Univ., Federal de
Sergipe-Aracaju-SE, Brasil) H. Bergamin Filho, M.M. Santos
Filha, B.F.D. Reis, N. Baccan
- P1-4 The Design of Flow-Through Cells for Dialysis Based on a
Laminar Flow Model and Experimental Results.

- (Lund Univ., Sweden) L. Risinger, G. Johansson
- P1-5 Coupling of Non-Chromatographic Continuous Separation Techniques.
(Cordoba Univ., Spain) M.D. Luque de Castro, M. Valcarcel
- P1-6 Direct Determination of Bitterness in Virgin Olive Oils Based on a Simple Automatic Continuous Sorption/Elution System.
(Cordoba Univ., Spain) M.D. Luque de Castro, M. Valcarcel, J.A. Garcia Mesa
- P1-7 The Model for Sample and Product Distribution in Straight and Coiled Reaction tubes of Flow Injection Analyzers.
(Inst. Anal. Inst. USSR, USSR) V.P. Andreev, M.I. Khidekel, T.V. Kondratyeva, A.V. Lipin
- P1-8 Studies on Expansion of Dynamic Range of Working Curve in FIA.
(Hitachi Ltd., Japan) T. Kuroishi, K. Yasuda
- P1-9 A New Sampling Method for the Simultaneous Determination of Fe(III), Ti(IV) and V(V).
(Peking Univ., China) Y. Ci, H.B. He, W.B. Chang
- P1-10 Experimental Fluctuations of Flow Injection Signals.
(Sao Paulo Univ., Brasil) M.F. Gine, H. Cui, R.L. Tuon, F.J. Krug, A.Z. Arruda
- P1-11 Reagent Introduction without Dilution in Flow Injection Procedures.
(Massachusetts Univ., U.S.A.) J.F. Tyson, S.J. Chalk
- P1-12 A Simple Model of Flow Injection Manifolds for Prediction of Peak Heights.
(Massachusetts Univ., U.S.A.) J.F. Tyson, S.R. Bysouth
- P1-13 Determination of Hydride-Forming Elements in Metals by Flow Injection Atomic Absorption Spectrometry with On-Line

Matrix Isolation.

(Massachusetts Univ., Philips Sci., Techn Univ., U.S.A.,
U.K.) J.F. Tyson, H.A.B. Kibble, S.G. Offley, N.J. Seare

P1-14 Detection by Magnetic Susceptibility for Flow Analysis
Procedures.

(Massachusetts Univ., Sherwood Sci. Ltd., U.S.A., U.K.)
J.F. Tyson, R.M. Larue, S. Bogdanski

P1-15 Improvement of Detectability of Selected Flow-Injection
Procedures Using Digital Signal Filtering.

(Warsaw Univ., Poland) M. Trojanowicz, B. Szostek

P1-16 Multi-Dimensional Flow Injection Extraction.

(CIBA-GEIGY AG, Switzerland) C. Thommen

P1-17 Study on Potassium Sodium Chloride Integrated Microconduit
Potential Analytical System.

(Applied Ecology Inst., Academia Sinica, China) H. Cui, J.
Sun

P1-18 Study on Integrated Microconduits FIA-ISES Analytical
System.

(Applied Ecology Inst., Academia Sinica, China) H. Cui, J.
Sun

P1-19 Sample Dispersion Property for Theoretically Composed Flow
Injection Analysis System.

(Okayama Univ., Japan) T. Korenaga

P1-20 High Sensitivity Flow Sensing Method for the Determination
of Proteins with Micro-Flow Plunger Pumps.

(Okayama Univ., Japan) T. Korenaga, X. Zhou, M. Izawa, T.
Takahashi, T. Moriwake, S. Shinoda

P1-21 Sequential Determination of Glucose, Fructose and Sucrose
by Flow Injection Analysis with Enzyme Reactors and
Spectrophotometric Detection.

- (Hull Univ., U.K.) C. Garcia de Maria, A. Townshend
- P1-22 On-Line Spectrophotometric Determination of Low Levels of Free and Combined Chlorine Residuals by Flow Injection.
(Hull Univ., U.K.) K. Verma, A. Jain, A. Townshend
- P1-23 Flow-Injection Amperometric System for Enzyme Immunoanalysis.
(Med. Inst. USSR, USSR) D. Ivnitskii, R. Sitdicov, V. Kurochkin
- P1-24 An Amperometric FIA Method for Estimation of Meat Freshness by Combined Use of Immobilized Enzyme Reactors and Peroxidase Electrode.
(Osaka Pref. Univ., Japan) T. Yao, M. Satomura, T. Wasa
- P1-25 Split-Flow Microcalorimetric Determination of L-Ascorbate with Use of an Immobilized Ascorbate Oxidase Reactor.
(Kanagawa Inst. Tech., Japan) I. Satoh, M. Kawasaki, S. Sugawara
- P1-26 Calorimetric Determination of Serum Phosphatidyl Choline Using an Immobilized Dual Enzyme Column.
(Kanagawa Inst. Tech., Lund Univ., Japan, Sweden) I. Satoh, T. Ozawa, B. Denielsson
- P1-27 Development of the Automatic Analysis System of the Fertilizer.
(Chisso Corp., Japan) Y. Tomi, K. Matsumoto
- P1-28 Determination of L-Glutamate by Amperometric Flow Injection Analysis Using Immobilized Glutamate Oxidase: Manifold for Simultaneous Detection of Component Signal and Blank Signal.
(Kyushu Univ., Japan) K. Matsumoto, K. Sakoda, Y. Osajima
- P1-29 Flow-Injection Determination of L-Glutamate in Serum with an Immobilized Glutamate Dehydrogenase Reactor.

- (Yamanashi Univ., Japan) N. Kiba, T. Moriya, M. Furusawa
- P1-30 Development of Oxygen Detector for Flow Injection Analysis and Its Application to L-Lactate Analysis.
(DKK Corp., Nichirei Corp., Japan) N. Funazaki, T. Yodo, Y. Asano, K. Hayashi, T. Okugawa, S. Hatao
- P1-31 Enzymatic Flow Injection Analysis in Non-Aqueous Media.
(Valencia Univ., Spain) J.A. Dardos, L. Braco, M. Delaguardia
- P1-32 Flow Injection Spectrophotometric Determination of Acetaminophen in Drug Formulations.
(Hull Univ., Polytechnic Inst. State Univ., U.K.) K. Verma, A. Jain, K. Stewart
- P1-33 Continuous Flow Catalytic Photodegradation of Pesticides.
(Valencia Univ., Torino Univ., Spain, Italy) E. Peris-Cardells, J. Terol, A.R. Mauri, M. Guardia, E. de la Pramauro
- P1-34 Pyrolysis-Flow Injection Analysis Spectrophotometric Determination of Aminoacids in Aqueous Solution.
(Los Andes Univ., Valencia Univ., Venezuela, Spain) J.L. Burguera, M. Burguera, M. Guardia, A. de la Salvador
- P1-36 Determination of Seafood Toxins in Food Using Flow Injection Analysis.
(Seafood Products Res. Center, U.S.A.) J. Hungerford, S. Lee
- P1-37 Fluorimetric Determination of Trace Amounts of Calcium in Brine.
(Nagoya Inst. Tech., Japan) H. Wada, H. Atsumi, G. Nakagawa
- P1-38 Direct Determination of Copper in Serum by Flow Injection Analysis.

- (Nagoya Inst. Tech., Japan) H. Wada, X.J. Zhou, H. Yamada,
G. Nakagawa
- P1-39 Viscoelasticity Measurement of Human Blood with Special
Reference to the Effect of Inertia, Average Shear Rate and
Hematocrit.
(Bioeng. Center Chongqing Univ., China) S. Cai, X. Wu, Y.
Lin, J. Xiao, Y. Wu
- P1-40 Continuous Flow Method for Determination of Trihalomethane
Formation Potential.
(Osaka Pref. Univ., Japan) T. Aoki, K. Kawakami
- P1-41 Selective Quantification of Methylamine in MRI Contrast
Media by Flow Injection Analysis.
(Center Ind. Res. Nycomed AS, Norway) G. Johansen, K.H.
Karstensen, K. Langseth, N.B. Vogt
- P1-42 Flow Analysis of UV-irradiated Chemicals by
Chemiluminescence and ESR.
(Nat. Inst. Public Health Sci., Tokyo Univ., Saitama Med.
School, Japan) S. Suzuki, H. Nakagawa, M. Fujita, S. Ono,
M. Suzuki, S. Takitani, M. Sonoda, Y. Sakagishi
- P1-43 Experience with Flow Injection Analysis in Marine Chemical
Research.
(Inst. General and Inorg. Chem., USSR) L.K. Shpigun, I.Y.
Kolotyrkina, Y.A. Zolotov
- P1-44 Field Application of FIA for the Determination of
Nutrients in Natural Waters.
(CISE Tech. Innovative ENEL, Italy) G. Ciceri, S. Ceradini
, W. Martinotti, G. Queirazza, R. Ferraroli
- P1-45 Reverse FIA Determination of Nutrients in Sea Water.
(Ocean Univ. Qingdao, China) X. Lu, N. Kang, B. Liang, L.
Chen, W. Hong

- P1-46 Experiences in the Determination of Inorganic Nitrogen ($\text{NH}_4^+\text{-N}$, $\text{NO}_2^-\text{-N}$, $\text{NO}_3^-\text{-N}$) in Water by FIA and CFA. (Hessian Environmental Protection Agency Perstorp Analytical/Tecator, Germany) G. Papke, B. Winter
- P1-48 Development of FIA-Imc Multi-Function Valve Flow Injection Analyser: Continuous On-Line Monitoring of Residual Chloride in Potable Water and COD in Waste Water. (South China Inst. Environmental Sci., China) G. Zhang, Q. Zhu, X. Guo
- I-3 Flow Analysis Based on Reaction with Buffer Solutions. (Kyusyu Univ., Japan) N. Ishibashi
- I-4 Kinetic Aspects of Flow Injection Analysis. Procedures Based on Kinetic Enhancement and Kinetic Discrimination. (The Tech. Univ. Denmark, Denmark) E.H. Hansen
- L2-1 Application of Square Wave Voltammetry for the Determination of Ascorbic Acid in Soft Drinks and Fruit Juices Using Flow Injection Analysis. (Hong Kong Univ., Hong Kong) Y.S. Fung, S.Y. Mo
- L2-2 Simultaneous Determination of Nitrite and Nitrate in Environmental Samples Using Flow-Injection Biamperometry. (Warsaw Univ., Poland) M. Trojanowicz, W. Matuszewski, B. Szostek
- L2-4 Simultaneous Determination of Serum Iron and Copper with 2-(5-bromo-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino) Aniline by Flow Injection Analysis. (Asahi Univ., Japan) T. Sakai, S.W. Kang, N. Ohno, K. Ida
- L2-5 Determination of Cyanide by Flow Injection Analysis Using an Intermediate Product of the Pyridine-Barbituric Acid Chromogenic Reaction. (Res. Center Eco-Environmental Sci., China) H. Ma, J. Liu

- L2-6 Continuous Flow Analysis of Vanadium by the Catalytic Reaction with Bindschedler's Green Leuco Base.
(Kyoto Univ., Japan) M. Sugiyama, T. Hori
- I-5 Electrochemical Detection in Flow Injection Analysis.
(Budapest Tech. Univ., Hungary) K. Toth
- I-6 Application of FIA in Process Analysis.
(Washington Univ., U.S.A.) G.D. Christian, J. Ruzicka
- P2-1 Remote Spectrophotometric Water Quality Monitoring.
(Polytechnic South West, U.K.) R.L. Benson, P.J. Worsfold
- P2-2 Porous Membrane Permeation of Halogens and Its Application to the Determination of Halide Ions and Residual Chlorine by Flow Injection Analysis.
(Okayama Univ., Japan) S. Motomizu, T. Yoden
- P2-3 Flow Injection Determination of Anionic Surfactants After Solvent Extraction by On-Column Visible Absorption and Fluorescence Detection.
(Okayama Univ., Japan) S. Motomizu, M. Kobayashi
- P2-4 Matrix Effect on the Simultaneous Determination of Silicon and Phosphorus with On-Line Column FIA Spectrophotometry.
(Rikkyo Univ., Japan) Y. Li, Y. Nawa, Y. Narusawa
- P2-5 Spectrophotometric Determination of Phenolic Compounds by Flow Injection Analysis.
(Tech. Univ. Berlin, Tecator, Germany, Sweden) W. Frenzel, J.O. Frenzel, J. Moller
- P2-6 Flow Injection Spectrophotometric Detection of Sulfite and SO₂ Following Gas-Diffusion Separation.
(Tech. Univ. Berlin, Germany) W. Frenzel, B. Hillmann
- P2-7 Determination of Sulfate Ion by FIA with Barium Chloranilate Reaction Column.
(Kumamoto Tech. Inst., Japan) K. Ueno, F. Sagara, K.

- Higashi, K. Yakata, I. Yoshida, D. Ishii
- P2-8 Development of Micro Flow Photometric Titration Method.
(Kumamoto Tech. Inst., Japan) F. Sagara, T. Kobayashi,
T. Tajima, H. Ijuin, I. Yoshida, D. Ishii, K. Ueno
- P2-9 Automatic Titration Based on the Establishment of Flow
Gradients in Continuous Configurations.
(Cordoba Univ., Spain) M. Valcarcel, A. Rios, J. Marcos
- P2-10 Multiparametric Flow-through Chemical Sensor Based on
Derivative Synchronous Spectrofluorimetry.
(Cordoba Univ., Spain) M. Valcarcel, M.D. Luque de Castro,
D. Chen
- P2-11 Fluorometric Determination of Fluoride in Flow Injection
System.
(Kumamoto Univ., Japan) A. Tohnami, A. Tanaka, T. Deguchi
- P2-12 Fluorometric Determination of Cyanide and Thiocyanate
Based on Koenig Reaction in Flow Injection System.
(Kumamoto Univ., Japan) K. Deguchi, A. Tanaka, T. Deguchi
- P2-13 Determination of Thorium and Uranium by Flow Injection
Analysis.
(Chiba Univ., Japan) K. Oguma, R. Kuroda, M. Matsumoto
- P2-14 Spectrophotometric Determination of Silver with Rhodamine
B by Flow-Injection Analysis.
(Fluminense Univ., Brazil) R.E. Santelli, K.A.G. Pereira,
E.M. Pedrazzi
- P2-15 Chromium Determination in Natural Waters by AAS and
Preconcentration with Activated Alumina Using Flow-Injection
Analysis.
(Fluminense Univ., Brazil) R.E. Santelli, M.C. Pannain
- P2-16 Flow Injection Determination of Ascorbic Acid with
Chemiluminescence Detection.

- (Peking Univ., China) H. Hong-Bin, C. Yun-Xiang
- P2-17 Flow Injection On-Line 8531 Fibre Column Separation and Preconcentration System for Efficient FAAS Determination of Trace Gold in Ores and Metallurgical Sample.
(General Res. Inst. Non-ferrous Metals, China) X. Wu, W. Qi, C. Zhou, Y. Gao
- P2-18 Time-Based and Volume-Based Sampling for Flow Injection On-Line Sorbent Extraction Graphite Furnace Atomic Absorption Spectrometry.
(Bodenseewerk Perkin-Elmer GmbH, Germany) B. Welz, M. Sperling, X. Yin
- P2-19 On-Line Microwave Sample Treatment for the Determination of Mercury in Water and Urine by Flow Injection Cold-Vapour Atomic Absorption Spectrometry.
(Bodenseewerk Perkin-Elmer GmbH, Sofia Univ., Germany, Bulgaria)
- P2-20 Simultaneous Determination of Arsenic, Selenium and Antimony in Water by an ICP/Hydride Method.
(Hydrological Res. Inst., Pretoria Univ., South Africa)
L. Pretorius, P.L. Kempster, H.R. van Vliete, J.F. van Staden
- P2-21 Flow Injection-Fourier Transform Infrared Analysis.
(Valencia Univ., Los Andes Univ., Spain, Venezuela)
M. Guardia, S. de la Garrigues, M. Gallignani, J.L. Burguera, M. Burguera
- P2-22 The Use of Flow Injection in the Study of Micellar Interactions.
(Valencia Univ., Spain) M. Guardia, E. de la Peris-Cardells
- P2-23 Flow Injection Analysis as a Tool for Monitoring of

- Metabolic Regulation by Phosphorylation.
(Kobe Women's Pharmacy College, Kyushu Univ., Japan)
Y. Baba, M. Tshako, H. Hirano, N. Yoza
- P2-24 Potentiometric Flow Injection Analysis of Concentrated Hydrogen Peroxide.
(Kyushu Univ., Japan) T. Imato, N. Ishibashi
- P2-25 Potentiometric Flow Injection Analysis of Aromatic Amine in Nonaqueous Solvents.
(Kyushu Univ., Japan) A. Katafuchi, T. Imato, N. Ishibashi
- P2-26 Potentiometric Flow Injection Analysis of Trace Oxidative Species by Using Fe(III)-Fe(II) Potential Buffer.
(Kyushu Sangyo Univ., Kyushu Univ., Japan) H. Ohura, T. Imato, S. Yamasaki, N. Ishibashi
- P2-27 Potentiometric Flow Analysis Device Using Membrane Coated Carbon-Rod Ion-Selective Electrode Detectors.
(Kagoshima Univ., Japan) E. Wang, S. Kamata
- P2-28 Continuous Flow Determination of Phosphate with a Lead Ion-Selective Electrode.
(Shiga Univ., Japan) H. Hara, S. Kusu
- P2-29 Influence and Contribution of Coated Open-Tubular Solid-State Silver Halide Ion-Selective Electrodes on Dispersion in Flow Injection Analysis.
(Pretoria Univ., South Africa) J.F. van Staden
- P2-30 On-Line Dialysis on Flow Injection Analysis.
(Pretoria Univ., South Africa) J.F. van Staden
- P2-31 Differential Detection in Flow Injection Analysis Using Flow-Through Tubular Ion Selective Electrodes.
(Autonoma de Barcelona Univ., Spain) J. Alonso-Chamarro, J. Bartroli, R. Barber, M. Camarasa, M. Del Valle
- P2-32 Use of a Miniaturized ISE as a Reference Electrode in an

- ISFET Detector for Flow Injection Analysis.
(Autonoma de Barcelona Univ., Spain) J. Alonso-Chamarro,
J. Bartroli, C. Jimenez
- P2-33 Simultaneous Determination of Cr(VI) at Two Different
Concentration Levels Using a Flow Injection System Based
on Sandwich Technique.
(Autonoma de Barcelona Univ., Spain) J. Alonso-Chamarro,
J. Bartroli, R. Barber
- P2-34 A Competitive ELISA for Steroids in the Femtomolar Range
with Electrochemical Detection in a FIA-System.
(Lund Univ., Sweden) K. Kronkvist, U. Lovgren, L. Edholm,
G. Johansson
- P2-35 Blocking Effect of Surfactants on Chemically Modified
Electrodes.
(Lund Univ., Sweden) M. Skoog, K. Kronkvist, G. Johansson
- P2-36 Immunoassay in a FIA System Based on Capacitance
Measurements on a Modified Gold Electrode.
(Lund Univ., Sweden) A. Swietlow, M. Skoog, G. Johansson
- P2-37 Mediatorless Electrocatalytic Reduction of Hydrogen
Peroxide at Peroxidase Modified Graphite Electrodes.
(Lund Univ., Sweden) E. Csoregi, G. J.-Pettersson, L.
Gorton
- P2-38 In-Flow Speciation of Cu, Zn, Pb and Cd in Fresh Water by
Differential Pulsed Anodic Stripping Voltammetry (DPASV).
(ENEL, Italy) W. Martinotti, G. Queirazza, F. Realini,
G. Ciceri
- P2-39 Automated Simultaneous Determination of Chloride and pH by
Flow Injection Analysis.
(Autonoma Barcelona Univ., Faculdade de Ciencias do Porto,
Spain, Portugal) J. Alonso, L.M.B. Alvares-Ribeiro, A.S.C.

Machado, L. Alern, J. Bartroli, M. del Valle

P2-40 The Application of Microprocessor to Industry Process FIA Analysis.

(Northeast Power Eng. Inst., China) F. Teng, H. Zhang, H. Pan, W. Cheng

P2-41 Flow Injection Analysis for On-Line Monitoring and Control of Industrial Fermentation Processes.

(Novo Nordisk A/S, Denmark) K. Nikolajsen, M. de Bang, K.A. Holm, J. Gram

P2-42 Fully Automated System for the Continuous Monitoring of Ammonium Ion in Fish Farming Plant Water by Flow Injection Analysis.

(Sanuki Ind. Co. Ltd., Tokyo Kasei Kogyo Co. Ltd., Keiyu Ind. Co. Ltd., Japan) H. Muraki, K. Higuchi, M. Sasaki, T. Korenaga, K. Toei

P2-43 Catalytic Determination of Ultratrace Amounts of Manganese by Flow Injection Analysis.

(Tottori Univ., Tsukuba Univ., Japan) S. Nakano, M. Nozawa, M. Yanagawa, T. Kawashima

P2-44 Indirect Spectrophotometric Determination of Complexing Agents by Flow Injection Analysis Based on Redox Reaction of Copper(II) with Iron(II).

(Tsukuba Univ., Japan) H. Itabashi, K. Umetsu, K. Satoh, T. Kawashima

P2-45 The Application of Air-Segmented FIA in Catalytic Kinetic Analysis.

(China Pharm. Univ., Nanjing Univ., China) Z.L. Zhi, L.C. Tian

- P2-46 Flow Injection Spectrophotometric Determination of Trace Cobalt with 2-(5-Bromo-2-Pyridylazo)-5-(N-Propyl-N-Sulfopropylamino)-Aniline: Use of Promoting Effect of Copper(II) on Complex Formation Reaction of Cobalt. (Yamanashi Univ., Japan) T. Yamane, K. Koshino
- I-7 Industrial Application of FIA. (Twente Univ., The Netherlands) W.E. van der Linden
- I-8 Flow Injection Analysis of Trace Elements by Use of Catalytic Reactions. (Tsukuba Univ., Japan) T. Kawashima
- L3-1 Industrial Process Monitoring by Flow Injection Analysis. (Polytechnic South West, I.C.I. Deakin Univ., U.K., Australia) P.M. Laurin, P.J. Worsfold, P. Norman, M. Crane, N.W. Barnett
- L3-2 Determination of Trace Rhenium in Seawater and Natural Sample by Inductively Coupled Plasma Mass Spectrometry with On-Line Preconcentration. (Tokyo Univ., Japan) M.B. Shabani, A. Masuda
- L3-3 COD Determination in Wells and Rivers Water by FIA Using a Microwave Oven During the Oxidation Step. (CISE, ENEL, Italy) R. Ferraroli, M.L. Balconi, M. Borgarello, F. Realini
- L3-4 Differential Determination of Ammonium, Nitrite and Nitrate by Flow Injection System. (Kumamoto Univ., Japan) A. Tanaka, K. Sonoda, K. Kajiwara, T. Deguchi
- L3-5 Sensitive Flow Injection Analysis Technique for the Determination of Dissolved Organic Carbon in Natural and Wastewaters. (Monash Univ., South Pacific Univ., Australia, Fiji) I.D.

Mckelvie, R.T. Edwards, P.C. Ferrett, B.T. Hart, J.B.A.
Bapat

- L3-6 Indirect Photometric Determination of Potassium Ion in Water Based on the Precipitation with Tetraphenylborate Ion and a Crown Ether Using Flow Injection.
(Okayama Univ., Japan) S. Motomizu, K. Yoshida, K. Toei
- I-9 Research on Flow-Injection Analysis in China
(Applied Ecology Inst., Academia Sinica, China) Z. Fang,
L. Sun
- I-10 Flow Injection Atomic Spectrometry - A New Analytical Technique.
(Massachusetts Univ., U.S.A.) J. Tyson, S. Bysouth, E. Debrah, T. Gluodenis, E. Grzeszczyk
- L4-1 Flow Injection Atomic Spectrometry Determination of Inorganic Arsenic(III) and Arsenic(V) Species by USE of an Aluminium-Column Arsine Generator and Cold Trapping Arsine Collection.
(Los Andes Univ., Venezuela) M. Burguera, J.L. Burguera, M.R. Brunetto, M. de la Guardia, A. Salvador
- L4-2 Improvement of Detection Limits for Flow Injection Flame Atomic Absorption Spectrometry by Dedicated Signal Processing.
(Bodenseewerk Perkin-Elmer GmbH, Jagiellonian Univ., Germany, Poland) B. Welz, M. Sperling, P. Koscielniak
- L4-3 Flow Injection Analysis of Potassium Ion Using Flame Photometer as a Detector.
(JASCO, Japan) T. Miyaji, M. Okui, M. Mikami, K. Hibi
- L4-4 Chemiluminescence Detection in FIA.
(Polytechnic South West, U.K.) P.J. Worsfold, B. Yan, S. Lewis

- L5-1 Determination of Glucose and Lactate in Ultra-Low Concentrations by FIA.
(Denmark Tech. Univ., Denmark) S. Benthin, J. Nielsen, J. Villadsen
- L5-2 Automated Spectrophotometric Determination of Acid Laccase Activity in Fermentation Samples Using Syringaldazin and a Flow Injection Analyzer.
(Novo Nordisk Res. Inst., Denmark) K.A. Holm
- L5-3 Use of an Immobilized Alkaline Phosphatase Column for Flow-Calorimetric Determination of Cobalt(III) Ions.
(Kanagawa Tech. Inst., Japan) I. Satoh, K. Watanabe
- L5-4 Flow-Injection Determination of Inhibitors in Fish Using Immobilized Diamine Oxidase.
(Seafood Products Res. Center, Bach Biochem. Inst., U.S.A. USSR) J. Hungerford, A. Arefyev
- L5-5 Selective Electrochemical Detection in FIA Based on Enzyme Modified Electrodes.
(Lund Univ., Sweden) G. J.-Pettersson
- L5-6 Flow-Injection Determination of Polyphenols Using Extracted Solutions of Banana Pulp and Spinach Leave as Carriers.
(Saitama Tech. Inst., Japan) S. Uchiyama, S. Suzuki

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- 1Ap2 Development of Highly-Sensitive chemiluminescence FIA System by Using of Photodiode as a Detector and Its Application for Measuring Freshness of Fish Meat.
(Nichirei Corp., Japan) Kenji Hayasi, Satoshi Hatao, Akihide Hemmi, Yasukazu Asano, Isao Karube

- 1Ap5 Novel Flow Injection Analysis for Selective Spectrophotometric Determination of Cetylpyridinium in Pharmaceuticals Utilizing Thermochromism of Ion Associates.
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(Osaka Univ., Japan) Teruo Hinoue, Takao Fukumoto,

Yu Yokoyama

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04 過酸化水素をもちいたFIAによるトリプトファン代謝産物の蛍光定量法

(帝京大薬) 小室晃彦, 飯沼文夫, 渡邊光夫

06 ジメチル硫酸を用いたFIAによる3-Hydroxykynurenineの蛍光定量法

(帝京大薬) 佐藤玉江, 飯沼文夫, 渡邊光夫

「A 最近の学会, 研究会から発表演題を収録しました。各位の御研究にお役立て下さい。

「A FIAの普及と共に発表の場も広くなり, 題名のみからはFIAに関連した演題であるか否かが判断不明の場合も少なからずあります。可能なものについては学会抄録等を取り寄せて検討するようにはしておりますが, 収録もれにお気付きの方がいらっしゃいましたら, お手数ですが編集部まで御一報下さい。

「A 兼ねてより病氣療養中でありました友田正子先生におかれましては, 闘病生活の甲斐も無く, 誠に残念ながら9月28日に永眠なさいました。ここに慎んで御冥福をお祈り致しますると共に, 御報告申し上げます。