

お知らせ

第11回フローインジェクション分析研究会講演会

共催 フローインジェクション分析研究会
日本分析化学会中部支部

日時 1989年6月30日 (金) 9:15 - 17:15
会場 朝日大学5号館

— 午前の部 —

プログラム

開会の辞 (9:15) 中川元吉 (名工大)

座長 今任稔彦 (9:20-10:05)

1. フローインジェクション分析法による鉄鋼試料中の微量ニッケルの定量
(朝日大教養) 酒井忠雄・○大野典子
2. 抽出-FIAによる銅の吸光光度定量法
(岡山大理) ○本水昌二・是近勝彦
3. 高分子電解質膜を用いたセンサーによるガス試料のFIA
(都立大工) ○長島珍男・保母敏行

座長 長島珍男 (10:05-10:50)

4. フローインジェクション法によるATPの化学発光分析法
(明電舎開発・昭和大薬) ○大島信夫・福岡正芳・前田昌子・辻章夫
5. FIAのためのフロークーロメトリー的電解化学発光検出器の開発
(京工織大織) ○佐藤昌憲・山田武・北村雅也
6. オンライン溶媒抽出/逆ミセル系化学発光検出法を用いたヨウ化物イオンの定量法
(広島大理) ○藤原照文・谷本典之・熊丸尚宏

座長 和田弘子 (10:50-11:35)

7. (特) F I A法による超微量元素の接触分析法
(筑波大化学・鳥取大教育) ○河嶋拓治・中野恵文

展示品見学 (11:35-13:15)

—午後の部—

座長 佐藤昌憲 (13:15-14:00)

8. F I Aの送液ポンプについて
(日立那珂・日立計測器) ○黒石忠文・保田和雄
9. 溶媒抽出-フローインジェクション分析における多孔性 P T F E チューブを用いた相分離器の検討
(都城高専) 三瀬皓愛
10. 新しいアイデアによる反応コイル恒温槽 R - 3000 C について
(サヌキ工業) 村木秀樹

座長 酒井忠雄 (14:00-14:45)

11. (特) フローインジェクション法を利用する分析及び分析法の高機能化
(岡山大理) 本水昌二

座長 善木道雄 (14:50-15:20)

12. オンライン-カラム前濃縮-原子吸光法による標準試料中の Cd と Cu の定量
(中国工試) 平田静子
13. ミクロ連続フロー分析法による工業用水中の微量ケイ素連続計測法
(岐薬大・名大工) ○後藤正志・胡文志・石井大道

座長 後藤正志 (15:20-16:05)

14. スルホナゾⅢ-バリウム錯体を用いる酒類中のアルコールの F I A 定量
(岡山理大) ○善木道雄・弘中努・桐栄恭二

15. フルオレセイン固定化フローセルを用いる酸・塩基のフローインジェクション分析

(九大工) ○齋藤恒・川畑祐司・今任稔彦・石橋信彦

16. 電位緩衝液を用いるフェノール類のフローインジェクション分析法

(九産大工・九大工) ○大浦博樹・今任稔彦・山崎澄男・石橋信彦

パネル討論 (16:10-17:10)

主題 F I A の実用化を考える

総合司会 中川元吉 (名工大)

パネリスト 青柳正也(住友化学)、秋葉正典(林原)、浅野泰一(電気化学計器)、千葉裕一(大塚製薬)、平田静子(中国工試)

閉会の辞 (17:15) 石橋信彦 (九大工)

(特) は特別講演を示す。

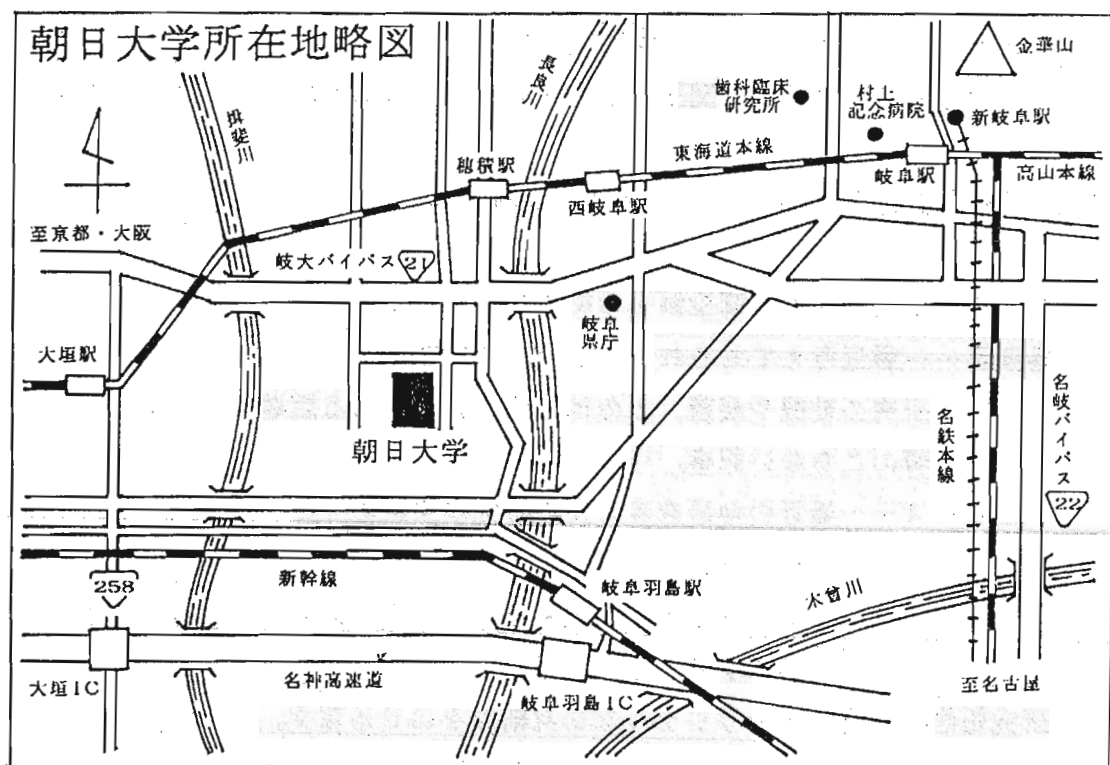
懇親会 6月30日(金)18時よりホテルパーク(長良川畔)にて行います。会費は5000円。

付設展示会 F I A 関連メーカーの出品が予定されています。
ガスクロ工業、サヌキ工業、相馬光学、電気化学計器、日製産業、日本精密科学、日本ゼネラル、日本分光工業

参加申込 なるべく6月20日(火)までに下記へご連絡下さい。参加費(講演要旨集代を含む)は当研究会および日本分析化学会会員の方は1,000円、その他の方は2,000円を当日受付でお支払い下さい。

連絡先 501-02 岐阜県本巣郡穂積町穂積1851 朝日大学教養部化学教室
酒井忠雄(電話 05832-6-6131 内線 1621, 1622)

会場案内図



住所 501-02 岐阜県本巣郡穂積町穂積1851

TEL 05832-6-6131

会場 朝日大学 5号館 512教室

交通 JR：東海道本線「穂積」下車、徒歩20分又はタクシーで5分。
東海道本線「岐阜」下車、新岐阜駅前より岐阜バス「県庁経由西大垣」行にて「朝日大学」下車。 名鉄：「新岐阜」下車、岐阜バス上記路線で「朝日大学」下車。 新幹線：「岐阜羽島」下車、タクシーで15分（約2000円）。

第12回フローインジェクション分析研究会講演会

- ・平成元年12月に開催予定、場所は未定
- ・詳細は日本分析化学会機関誌「ぶんせき」の会告欄でお知らせいたします。

F I A研究会会誌Vol. 6, No. 2への投稿記事の募集

事務局では下記の記事の御投稿をお待ちしております。

巻頭言……最近考えておられることをまとめる。

指標……研究の動機や展望、その他F I Aにまつわる話題について
肩のこらない記事。1または2ページ

トピックス……最近の他研究者による研究論文の紹介。

図表を含めて1ページ

始めにタイトルと執筆者名、所属を入れる。末尾に原著
を明示すること。

研究報告……自分のオリジナルな研究結果をのせる報文。

タイトルのあと氏名、所属、連絡先を入れる。

和文の場合はアブストラクトを5～10行程度入れたのち本文に
入る。

引用文献があれば論文末にのせる。

引用論文の後に送付した日を受理日としてかつこの中に記入
する。

総説……F I Aの中の一つの分野についてレビューを行なう。

F I A全部にわたらないように注意。また著者の研究内容だ
けでなく、関連する他人の文献も含める。10ページ以内
表題と著者名、所属（連絡先）は和文と英文を併記

体裁については執筆上の注意を御覧のうえ既刊の会誌を御参考下さい。

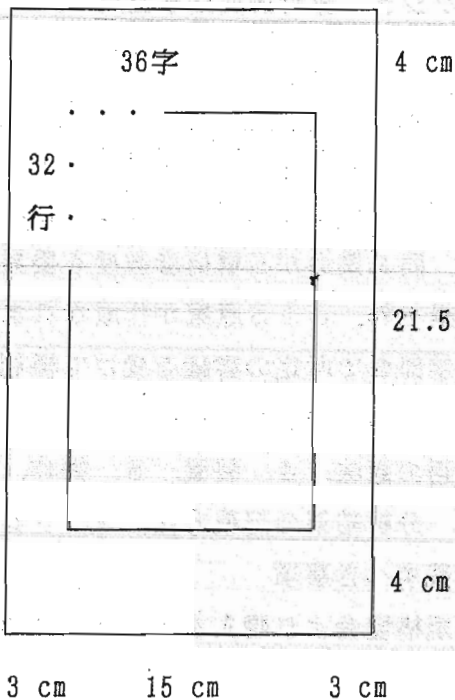
原稿締め切りは10月末日ですが、投稿ご希望の方は早めにタイトルを事
務局までお知らせ下さい。

原稿執筆上の注意

○著者から提出された原稿(A4)をそのままオフセット(B5へ縮小)致します。タイプまたはワープロを用いて、下記書式(白紙)で原稿を作成して下さい。ワープロの場合は16ドット以上(原則として全角)でプリントして下さい。表題(和文)はできれば倍角で。

○書式について(ワープロ)

A4の用紙



左は標準例を示したもので
必ずしも厳密にお守りいた
だく必要はありません。

当方にてA4からB5に縮小して印刷、製本を行ないます。

事務局では下記の要領で会誌への広告を募集しています。

記

広告原稿： そのままオフセット印刷（モノクロ写真製版、B5サイズ）できるもの

広告料： 1ページにつき年間（1号と2号）で3万円

原稿締切日： 198910月31日

原稿送付先： 〒812 福岡市東区箱崎6-10-1

九州大学工学部応用化学教室

フローインジェクション分析研究会事務局

フローインジェクション分析方法通則の制定

「フローインジェクション分析方法通則」（J I S K 0 1 2 6）がさる平成元年2月に制定されました。昭和62年度に工業技術院が社団法人日本分析機器工業会にJ I S原案の作成を委託し、同工業会が石橋信彦教授を委員長とした原案作成委員会を組織し、そこで審議され、J I S原案が作成されました。この原案は工業技術院に提出され、同化学部会で所定の審議を受けて標記通則が制定されたものであります。以下の項目から構成されています。

1. 適用範囲、2. 共通事項、3. 用語の意味、4. 装置、5. 操作、6. 定量分析、7. 設置及び注意事項等、8. 分析結果の記載方法、9. フローインジェクション分析を用いる個別規格記載すべき事項

この通則をご覧になりたいかたは日本規格協会より購入することができます。

Winter Conference on Flow Injection Analysis
Orlando, Florida, January 5-7, 1989.

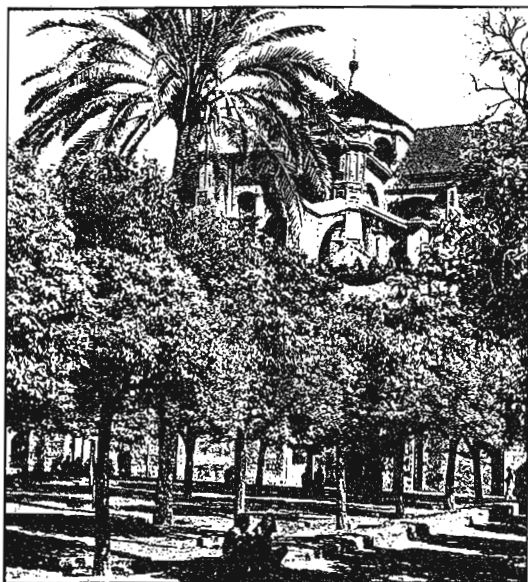
Reflecting the increased interest, application and utilization of Flow Injection Analysis (FIA) in areas extending from use in basic research, over routine applications in chemical, clinical and pharmaceutical laboratories, to in/on-line monitoring of industrial processes, several international FIA conferences and symposia have been organized and drawn attendance from more than 40 countries. Although a significant number of the more than 2200 FIA-papers, which so far have been published in international periodicals, are the fruits of American research groups, it is nevertheless true that FIA has been met with much less enthusiasm in the US than in Europe and indeed Asia, where notably Japan and China are engaged in advanced and prolific research activities. This lack of interest/understanding of the potentials and capabilities of FIA was amply demonstrated last year at the "Flow Analysis IV Conference" in Las Vegas, USA, where less than one third of the contingent of delegates from 35 countries were Americans.

In order to remedy this situation, Professors G. Christian and J. Ruzicka from University of Washington, Seattle, and G. Pacey of Miami University, Oxford, OH, decided to organize the first "Winter Conference on Flow Injection Analysis", which took place in Orlando, Florida, January 5-7, 1989. Aimed primarily at bringing together experienced FIA practitioners as well as novices from academia and industry, the conference was attended by some 50 persons, only a few of which came from overseas (Denmark, England and Japan). Yet what was particularly rewarding for the organizers was the strong attendance of persons from the industrial field, the presence of which was not only reflected in the composition of the final program, but also very much in evidence at the "Round Table" discussion which was held on the second day of the conference. Structurally, the meeting was divided into three sessions: (a) General Flow Injection Analysis, (b) General and Process FIA, and (c) FIA and Chromatography, which altogether featured 21 lectures and 3 poster presentations. At hand was also three American exhibitors which displayed commercially available FIA equipment and auxiliaries (Alpchem, FIATron and Alltea, USA).

At the end of the meeting the enthused participants overwhelmingly suggested making the Winter Conference an annual event, the time of the first week of January being a period most convenient to the majority of the participants. The next meeting will hence be scheduled by the same organizers for 1990 - by all probability again in Florida.

Elo Harald Hansen
Chemistry Department A, Bldg 207
Technical University of Denmark
DK-2800 Lyngby, Denmark

International Symposium on Detection in Liquid Chromatography and Flow Injection Analysis (HPLC/FIA)



September 20-22, 1989
Universidad de Córdoba, Spain

Sponsored by



International Association
of Environmental
Analytical Chemistry



University of Córdoba



Hewlett-Packard

Preliminary Programme and Call for Papers

About the Symposium

Detection in liquid flow streams as encountered in HPLC and FIA, can often be considered as the weakest link in the chain of analytical events leading to results in such systems. Nevertheless, considerable advances have been made in past years and much imagination has been invested in improving detection systems and in introducing new detection models.

Many research efforts have also been directed towards adapting chemical derivatization principles to improve detection characteristics and hence the selectivity and sensitivity of the total analytical system. Further efforts have also been made to render such techniques suitable for automation and to adapt detection processes to miniaturized systems.

All these aspects shall be presented and discussed at this symposium and the state of the art and shortcomings critically assessed. As a novel feature, experts from two areas – HPLC and FIA – are called to participate. Since detection problems are often similar in both fields, the aim is to stimulate cross fertilization. The combined know how of these two groups of specialists and users is sure to benefit all those who attend.

Proceedings

Two special issues on Symposium contributions are planned, one in the *Journal of Chromatography* and one in *Analytica Chimica Acta* (both Elsevier Publishing Co. Amsterdam; Netherlands).

Language

The official Symposium language will be English. No simultaneous translation facilities will be provided.

Call for Papers and Posters

A title and short abstract (circa 200 words) should be submitted by July 31, 1989 (preferably before) to:

Prof. Dr. R. W. Frei
Dept. Analytical Chemistry
Free University
De Boelelaan 1083
1081 HV Amsterdam, NL
Tel. (20) 5485379

Prof. Dr. M. Valcarcel
Dpto. Química Analítica
Facultad de Ciencias
14004 Córdoba
Spain
Tel. (9) 57-234453

Accommodation:

Air-conditioned rooms with individual bathroom are available in the Halls of Residence where the Symposium will take place.

Single room incl. breakfast 4,000 pts/day

Double room incl. breakfast 6,000 pts/day

Sports facilities (swimming pool, tennis courts) are available in the Colegio Mayor La Asuncion.

Accommodation fees are to be paid upon arrival at the desk.

Final Program:

The final program will be distributed at the registration office during the opening hours at the Congress Office.

Exhibition

Instruments and literature will be exhibited in the symposium and poster area.

Organization and information

The registration desk in the Colegio Mayor La Asuncion will be open from 16.00 to 19.00 on September 19, 1989 and from 8.30 onwards on September 20, 1989.

Start of Scientific Programme: 9.00

Location and address during the Symposium:

Colegio Mayor La Asuncion
Avda. Menendez Pidal, s/n
14004 Córdoba,
Spain
Tel. (9) 57-297144

Address before and after the Symposium:

Workshop office IAEAC
M. Frei-Häusler
Postfach 46
CH-4123 Allschwil 2
Switzerland
Tel. (004161) 632789 and 732950

Sponsors and Organizers**Scientific Committee**

Prof. Dr. M Blanco, Barcelona, Spain

Prof. Dr. R. W. Frei, Amsterdam, Netherlands
(Co-Chairman)

Dr. Ing. K. P. Hupe, Waldbronn, West Germany
(Co-Chairman)

Prof. Dr. W. E. van der Linden, Enschede, Netherlands

Prof. Dr. M. Valcarcel, Córdoba, Spain (Chairman)

Secretary

Dr. M. D. Luque de Castro, Córdoba, Spain

Organizing Committee

Prof. Dr. M. V. Dabrio, Madrid, Spain

Dr. M. Gallego, Córdoba, Spain

Dr. L. Huber, Waldbronn, West Germany

Dr. Lopez Fernandez, Córdoba, Spain

Mr. M. A. Lopez-Sanchez

Dr. M. D. Luque de Castro, Córdoba, Spain

Dr. A. Rios, Córdoba, Spain

Prof. Dr. M. Valcarcel, Córdoba, Spain

Scientific Programme

Prof. Dr. R. W. Frei
Dept. Analytical Chemistry
Free University
De Boelelaan 1083
1081 HV Amsterdam, NL
Tel. (20) 5485379

Prof. Dr. M. Valcarcel
Dpto. Quimica Analitica
Facultad de Ciencias
14004 Córdoba
Spain
Tel. (9) 57-234453

Registration:

The application form attached to this preliminary programme should be submitted to the Workshop Office IAEAC as soon as possible for contributors outside of Spain or Portugal.

Contributors from within the Iberian continent should submit the special form to: M. D. Luque de Castro, Departamento de Quimica Analitica, Facultad de Ciencias, 14004 Córdoba (Spain).

The deadline for registration is September 1, 1989.

Registration fee:

Sfr: 460.-

Pesetas: 22,000.- (for Spanish and Portuguese participants only) including social events and proceedings.

Sponsors

International Association of Environmental Analytical Chemistry
Universidad de Córdoba
Sociedad Española de Química Analítica
Grupo de Cromatografía y Técnicas afines de la Real Sociedad Española de Química
Hewlett-Packard Co.
Elsevier Ltd.

Scientific Programme

A. Apfell

Hewlett-Packard Co. Palo Alto, USA
"Particle Beam; a novel LC-MS interface"

U. A. Th. Brinkmann

Free University of Amsterdam, Netherlands
"HPLC coupled on-line with GC-type detectors"

R. F. Browner

Georgia Institute of Technology, Atlanta, USA
"A novel interface for LC-infrared spectroscopy"

G. A. Christian

University of Washington, USA
"Unique approaches for multicomponent detection"

H. Engelhardt

Universität des Saarlandes, Saarbrücken,
West Germany
"State of the art in postcolumn reactor development"

A. Fell

University of Bradford, UK
"Detection via diode array systems"

L. Goojer

Free University of Amsterdam, Netherlands
"Novel luminescence detection approaches for LC-FIA"

J.F.K. Huber

Universität Wien, Austria
"Reaction detectors in FIA and HPLC: a critical comparison"

L. Huber and T. Dörr,

Hewlett-Packard GmbH, Waldbronn, West Germany
"Sensitivity and long term stability of electrochemical detection in HPLC"

G. de Jong

Free University of Amsterdam, Netherlands
"Chemiluminescence detection in dynamic systems"

U. Jürgens

Biochemisches Labor Bielefeld, West Germany
"Pre- and post-column fluorescence labelling"

I. Krull

Northeastern University, Boston, USA
"Polymeric reagents for on- and off-line derivatisation in chromatography"

J. L. F. C. Lima

University of Porto, Portugal
"Potentiometric detection in FIA"

G. Marko-Varga

University of Lund, Sweden
"Analysis of sugars with post-column immobilized enzyme reactors"

L. Nagels

University of Antwerpen, Netherlands
"On-line electrochemical detection and fast scanning ECA in flowing streams"

B. Neidhart

Institut für Arbeitsphysiologie, Dortmund,
West Germany
"Solid phase reactors in continuous detection systems"

J. de Pablo

University of Barcelona, Spain
"FIA as a tool for sample treatment and detection"

H. Poppe

University of Amsterdam, Netherlands
Experiences with ultra miniaturized detection in flowing systems"

J. Ruzicka

University of Washington, USA
"Flow injection spectroscopy at chemically inactive surfaces"

A. Sanz-Medel

University of Oviedo, Spain
"Enhancing the photoluminescent detection of metals by resorting to membrane mimetic agents"

C. Thommen

Ciba-Geigy, Basel, Switzerland
"Industrial applications of FIA, photometric detection and data processing"

K. Toth

Technical University of Budapest, Hungaria
"Potentiometric detection in continuous flow systems"

J. Tyson

University of Loughborough, UK
"The atomic spectrometric detector for FIA"

W. E. van der Linden

University of Twente, Netherlands
"Characterization of flow through detectors; an experimental approach"

N. Velthorst,

Free University of Amsterdam, Netherlands
"Lasers for detection in HPLC and FIA"

J. Wang

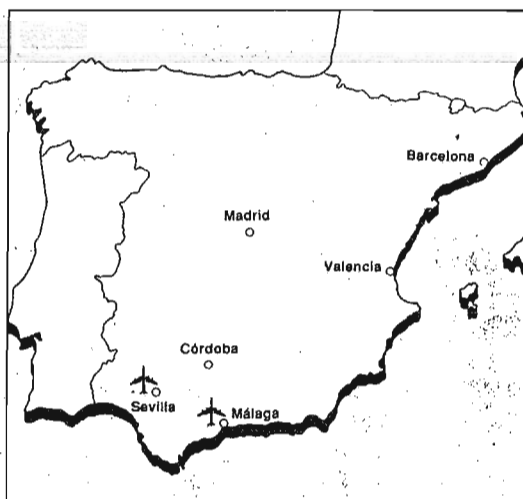
New Mexico State University, USA
"Modified electrodes for electrochemical detection in flowing streams"

D. Westerlund

University of Uppsala, Sweden
"Indirect photometric detection techniques in HPLC"

A. Wiese

Hewlett-Packard GmbH, Waldbronn, West Germany
Design and application of fluorescence detectors in HPLC.



About the Symposium Location

Córdoba, the capital of the Province in Southern Spain of the same name, is a city steeped in history. The Arabs conquered the Romans here in the 8th century AD and for three hundred years it was the most important cultural center in the Mediterranean. Remains of the Spanish-Moslem architecture, the Medina Azahara, can be found on the outskirts of the city. After the city was returned to Spanish rule by King Ferdinand III in 1236, the Cordoba Mosque was transformed into a cathedral. A synagogue was constructed soon afterwards. These buildings, together with gardens, courtyards and other delights of the city's heritage lie within its ancient walls waiting to be discovered by visitors.

Córdoba can be reached by air or train. Closest airports are Sevilla and Málaga. In Madrid trains for Córdoba leave from Chamardin Station.

Social Events

An interesting social programme (including receptions, sightseeing tours and a closing banquet) will be arranged for participants and accompanying persons, free of charge.