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ER-122:Alexander

REPORT OF FOREIGN TRAVEL BY JAMES E. CROOK, ORAU

Robert W. Wood, Acting Associate Director, Office of Health and Environmental Research, ER-70, Headquarters, Germantown, Maryland

Attached is a copy of a trip report prepared by James E. Crook covering his travel to Budapest, Hungary, during the period August 24-28, 1987, where he attended the European Nuclear Medicine Congress.

The report has been reviewed and does not contain any classified information.

original signed by
M.C. Wallace

for W. D. Adams, Director
Research and Waste Management Division

Attachment

- cc w/atchmt:
- J. F. Decker, ER-1, HQ, FORS
- D. B. Waller, IE-1, HQ, FORS
- A. B. Siebert, DP-33, HQ, FORS
- R. W. Brown, DP-34, HQ, FORS
- J. G. Coyne, MA-28, OSTI
- J. A. Lenhard, ER-10, ORO
- D. J. Cook, DP-82, ORO

ER-122:MWallace:aa:6-0714:3/35/88

REPOSITORY Oak Ridge Operations
Records Holding Area
 COLLECTION Doc. 1944-94
 BOX No. A-58-7 ^{7 of 8} 91-64 Bldg. 2714-H
 FOLDER 1516-ORAU

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| CONCURRENCES |
| RTG. SYMBOL ER-122 |
| INITIALS/SIG. ALEXANDER.. |
| DATE 3/28/88 |
| RTG. SYMBOL ER-122 |
| INITIALS/SIG. WALLACE.. |
| DATE 3/28/88 |
| RTG. SYMBOL ER-122 |
| INITIALS/SIG. BROWN |
| DATE 3-28-88 |
| RTG. SYMBOL ER-122 |
| INITIALS/SIG. WALLACE |
| DATE 3/29/88 |
| RTG. SYMBOL |
| INITIALS/SIG. |
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| INITIALS/SIG. |
| DATE |

1128319

I-467

1516 ORAU

FOREIGN TRAVEL REPORT

August 21 - August 30, 1987

**James E. Crook, M.D., Ph.D.
Medical and Health Sciences Division
Oak Ridge Associated Universities
P. O. Box 117
Oak Ridge, Tennessee 37831**

Prepared December 31, 1987

1128320

SUMMARY

- (1) Traveler: James E. Crook, M.D., Ph.D., FACP, Director, Radiopharmaceutical Development and Preclinical Nuclear Medicine and Acting Director, Clinical Nuclear Medicine, Medical and Health Sciences Division, Oak Ridge, Tennessee 37831-0117. This trip report is dated December 31, 1987.
- (2) Destination: Budapest, Hungary. This trip covered the period August 21 - August 30, 1987. Official business was involved during the period August 24 - August 28, 1987.
- (3) Purpose of Trip: To attend and participate in the European Nuclear Medicine Congress-1987 which focused on scientific presentations of basic and clinical investigative work pertinent to the program needs.
- (4) Abstract: The European Nuclear Medicine Congress-1987 represented a number of participating organizations under this broad heading. The participating organizations were the Society of Nuclear Medicine-Europe, 25th Meeting; The European Nuclear Medicine Society, 10th Meeting, and the Hungarian Nuclear Medicine Society, 5th Meeting. The Congress attracted approximately 1950 registrants representing 53 countries. A large majority of those present were from European countries. However, the United States appeared to have a representative number of participants. As might be expected, the representation of academic Hungarian Nuclear Medicine Departments was high. At the opening of the Congress, the Chairman reported the number of abstracts received was much higher than anticipated, and the quality of abstracts accepted for presentation to the Congress was sufficient to insure a high caliber congress. The scientific papers presented were delivered in the guise of plenary lectures, symposia and oral scientific presentations. Major organ systems, as well as diseases of major importance, especially those upon which radiopharmacology and nuclear medicine would have an impact were presented. There was heavy emphasis upon immunoscintigraphy, some of which involved novel methods for radiolabeling of the monoclonal antibodies required for this purpose.
- (5) Cost of Travel: The total cost of this trip was \$2509.62 and was charged to DOE Budget Activity HA 02 07 01 for the Preclinical and Radiopharmaceutical Development program.

COMPREHENSIVE REPORT

European Nuclear Medicine Congress-1987

The European Nuclear Medicine Congress-1987 held at the Congress Palace of Budapest was formally opened by Professor Csernay from Hungary. Following the opening address, the Hevesy Memorial Lecture was delivered by Dr. Steve Larson of the National Institutes of Health, Bethesda, Maryland, USA. The title of his presentation was "Radiolabeled Monoclonal Antibodies for Tumor Directed Diagnosis and Therapy: A New Frontier". During the course of his presentation he reviewed a wide range of studies which had employed radiolabeled monoclonal antibodies. Following this wide ranging discussion, he focused on studies which had been carried out or were currently being undertaken at the National Institutes of Health, both with and without the collaboration of European investigators. Prior to beginning his lecture, Dr. Larson was awarded the Hevesy Lecture Medal for his outstanding contributions in nuclear medicine.

The second day of the scientific program included a masterful presentation and overview of radiopharmacology by Dr. Alfred Wolf of the Brookhaven National Laboratories, USA. In the course of Dr. Wolf's presentation he covered investigations carried out by both he and his group at the Brookhaven National laboratory as well as other investigators world-wide. Specifically, Dr. Wolf talked of newer investigations and, in some cases, newer uses for older radiopharmaceuticals labeled with short-lived radionuclides such as carbon-11. He discussed localization of L-deprenyl and its unexpected localization in the heart. As well, he expounded to some degree on his use of fluorinated monoclonal antibodies and their potential application in clinical medicine and investigation. He also covered his work performed with putrescine, as well as other studies involving estrogen receptors and radiopharmaceuticals as applied to studies of the central nervous system, especially those being carried out in Sweden.

The format of opening each session each day by focusing on specific subspecialty areas of interest, was carried out through the remainder of the session with sessions devoted specifically to endocrinology and cardiology on the third day of the sessions. On the penultimate day of the sessions, the area of focus was on neurology.

Continuing with presentations of interest on the second day, one particular paper dealt with the European program on characterization and standardization of positron emission tomography instrumentation. The thrust was that the increasing diffusion and importance of positron emission tomography had stimulated a number of meetings and workshops related to radiopharmaceutical chemistry, instrumentation and clinical applications; and that as a result of these meeting, a program called Concerted Action was finalized to address the assessment of PET instrumentation and its performance. This program involved the participation of 25 European Centers and industrial cooperation. The main objectives of the work program were as follows:

- 1) development of standard schemes to evaluate hardware and software configuration;
- 2) definition of common test procedures to evaluate physical and imaging properties;
- 3) coordination of test procedures and collection of data, and
- 4) systematic dissemination and exchange of information among laboratories and clinical centers.

The program has a 3-year schedule, 1987 through 1989,

and foresees a reorientation of the objectives toward: 1) assessment and optimization of clinical protocols, and 2) methodological support to the development of new investigative protocols.

Numerous other papers were presented on the second day of the meeting as well as on subsequent days which had bearing on the program's direction. A number of interesting papers were presented in the field of oncology, again specifically involving positron emission tomography with short-lived radionuclides such as carbon-11. Of particular interest was a paper presented entitled, "PET Studies in Rats to Evaluate a Genetic Model to Measure Synthesis Protein Rates in Tumors". The authors presented interesting data showing that dynamic PET data could be obtained using a longitudinal positron imaging system in conjunction with L-C¹¹-tyrosine and L- and D-methionine. They basically concluded that carboxylic-labeled tyrosine had the best potential for measuring the protein synthesis rate. Again, there were a number of papers dealing with ¹³¹I MIBG in the diagnosis and treatment of such tumors as neuroblastomas and malignant pheochromocytomas.

Toward the end of the session, there was an opportunity for free communication and works-in-progress. Pertinent to our research program was a free communication dealing with implantation of PC-12 cells into rats. These cells produce a benign pheochromocytoma unlike our NEDH rat tumor implants which are malignant. A small number of tumor-bearing rats (N=4) received external radiotherapy. At the two extremes, one animal had 90% tumor necrosis with a total dose of 18 Gy, while a second animal had only micronecrosis following 36 Gy. The uptake of MIBG was not influenced by radiotherapy. In summary, the investigator felt that the animal model was suitable for kinetic studies of radiopharmaceutical agents, for imaging of catecholamine-producing tissue, as well as for pharmacological and biochemical studies. The researcher did not expound any postulated explanation. In describing his research, the investigator stated that injecting 1.5 to 30 million PC-12 cells subcutaneously in white NEDH rats produced a pheochromocytoma. At 24-30 days palpable tumors were present in approximately 60% of the rats. Pieces of tumor were then transplanted to other rats. Tumor growth was observed in only about 25% because most of the animals died from infection. Scintigraphy was performed with 90% of the rats bearing PC-12 tumors revealing a positive image versus only 33% of rats who had received tumor tissue implants. In all animals, tumor uptake was nonhomogeneous and independent of tumor size for the variable uptake of MIBG by the lesions. The investigator and I discussed formally and informally his inability to achieve a high success rate of implantation.

One poster had focused on copper-64 and its use in the investigation of Wilson's disease in 73 individuals divided into the following groups: (a) 10 normals; (b) 18 heterozygotes--mothers and fathers of Wilson's disease patients; (c) 18 symptomatic individuals with the disease--one adult and 17 children, and (d) 27 suspected individuals--five with liver disease and parents of two of the children, four with neurologic disease and 14 siblings. The copper-64 was administered intravenously, 110 kBq/kg of body weight. Plasma was collected at 10 min, 4, 24 and 48 hrs. External counting of the liver was carried out. As expected, the bulk of the exposure was to the liver with a dose of approximately 1.5 μ Gy/kBq for a 25 kg child and 0.6 μ Gy/kBq for a 70 kg adult.

EVALUATION

The clarity and utility of the symposia clearly reflected that the organizers were capable of putting together a well focused symposium with chairmen of various sessions who were talented, clearly experienced in the areas of the sessions they chaired, and internationally renowned. Through conversations with other attendees, as well as some of the organizers of this symposia, I feel it is clear that the goals as set forward on the opening day of the conference were achieved. From the standpoint of the rational use of radiopharmaceuticals either as radiolabeled monoclonal antibodies or as chemical substances containing various radiolabels, it is quite clear that the importance of radiopharmaceutical development will remain a relevant and clearly defined area in clinical research. Its importance in the future, in both diagnostic and therapeutic areas, will only become more important. This importance and relevancy is clearly defined when one considers the length of time devoted not only to the preparation for the symposia, but as well to the symposia, the number of papers, the number of participants, and the countries represented.

My attendance at the conference was certainly worthwhile. I was able to reestablish scientific connections with Dr. Janoki, a physician-investigator in Budapest, Hungary. He was a Chairman of a number of committees as well as one of the organizers of the European Congress. He is well-known both nationally and internationally.

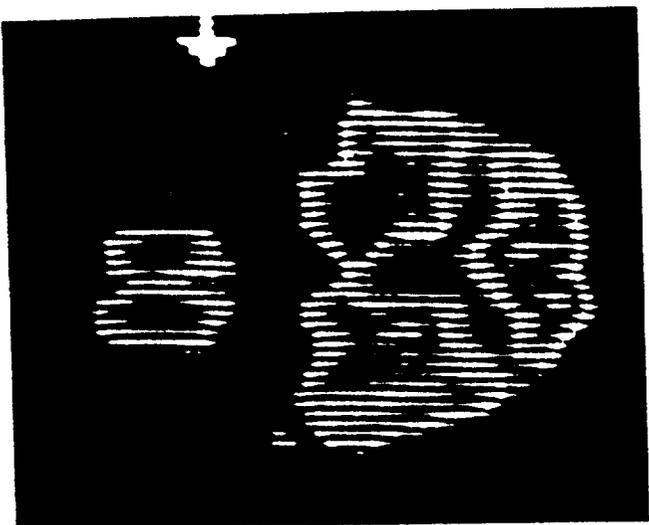
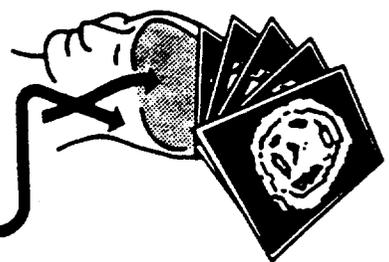
Finally, the thrust and impact that PET and short-lived radionuclides has and will continue to have on the medical and scientific community was made evident by the number and scope of presentations at this meeting.

APPENDICES

A copy of the scientific program for the European Nuclear Medicine Congress is attached as appendix A.

Ceretec

Technetium HM-PAO agent
for rCBF scintigraphy



Case study: Dementia

The differential diagnosis of Alzheimer's disease and multi-infarct dementia is often difficult from clinical signs. This patient, a 57 year old female, started to become progressively demented 3 years ago. According to the neuro-physiological examination Alzheimer's disease was suspected. CT showed atrophic changes.

Ceretec revealed extensive low tracer deposition in both parietal and temporal lobes, typical of Alzheimer's disease.

SPECT was performed with a Siemens Rota ZLC 37 dual head scintillation camera and a Nodectec Micac computer with 714 MBq (19.3mCi) Ceretec. Scanning time was 30 minutes.

Scan courtesy: Dr. I Podreka et al.,
Department of Neuro-radiologmedizin,
Neurologische Universitätsklinik, Wien



Programme Survey

| Monday, August 24th | | | | Hotel Hyatt | Hotel Forum |
|------------------------------|---|-----------|---|---|---|
| Congress Palace | | | | | |
| Entrance Hall | Patria Hall | Palm Room | Restaurant | | |
| 10.00-16.00 Registration | | | 12.00-14.00 SNME Corporate Members Lunch | 9.00-13.00 Pre-Congress Meeting PET vs SPECT | 9.00-15.30 Pre-Congress Meeting KBS in Nuclear Medicine |
| | | | 14.00-16.30 SNME Advisory Council Meeting | | |
| | 17.00-19.30 Opening Ceremony Concert Hevesy Memorial Lecture | | | | |
| 19.30-20.30 Welcome Party | | | | | |

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| Tuesday, August 25th | | | | | | | | |
|---|---|-----------------------------------|---------------------------------------|---------------------------|--|--|---|--|
| Plenary Session Hall | Hall A | Hall B | Hall C | Hall D | Hall M | Conference Room I | Conference Room II | |
| Invited lectures 9.00-9.40 Instrumentation 9.45-10.25 Radiopharmacology | 8.30 Opening of the Exhibition | | | | | | | |
| | | | | | | | | |
| Coffee | | | | | | | | |
| | 10.45-12.45 New radio-pharmaceuticals I | 10.45-12.45 SPECT and PET | 10.45-12.45 Immunoscintigraphy I | 10.45-12.45 Nephrology | 10.45-12.45 Technicians session Invited papers (English and German) | | | |
| 12.50-13.50 Polaroid Lunch Meeting | Lunch | | | | | | | |
| | 14.00-15.30 New radio-pharmaceuticals II | 14.00-15.30 Quality Control | 14.00-15.30 Immunoscintigraphy II | 14.00-15.30 Oncology | 14.00-15.30 Technicians session German speaking Free papers | 13.00-14.30 ENMS Delegates Ordinary Meeting | 13.00-14.30 SNIME Delegates Meeting | |
| Tea | | | | | | | | |
| | 15.50-17.25 Radiopharm. chemistry | 15.50-17.25 Picture processing | 15.50-17.25 Immunoscintigraphy III | 15.50-17.25 Therapy | | | | |
| Social Programme: 19.00 Concert 20.30 Reception in the National Gallery | | | | | | | | |

Wednesday, August 26th

| Plenary Session Hall | Hall A | Hall B | Hall C | Hall D | Hall M | Conference Room I |
|---|--|-----------------------------------|------------------------------|------------------------------------|--|--|
| Invited lectures 8.30-9.10 Endocrinology 9.15-9.55 Cardiology | | | | | | |
| | Coffee | | | | | |
| | 10.15-12.15 Cardiology I | 10.15-12.15 NMR | 10.15-12.15 Thyroid | 10.15-12.15 Gastroenterology I | 10.15-12.15 Technicians session Invited papers (English and German) | |
| 12.30-13.30 Centobar Lunch Meeting | Lunch | | | | | |
| | 14.15-15.45 Cardiology II | 14.15-15.45 Instrumentation I | 14.15-15.45 Endocrinology | 14.15-15.45 Gastroenterology II | 14.15-15.45 Technicians session English speaking Free papers | 13.00-14.15 EANM Delegates Meeting |
| Tea | | | | | | |
| | 16.00-17.30 Cardiology III 17.30-19.00 EANM Members Assembly | 16.00-17.30 Instrumentation II | 16.00-17.30 New RIA | 16.00-17.30 Haematology | | |

Thursday, August 27th

| Plenary Session Hall | Hall A | Hall B | Hall C | Hall D | Hall M | Conference Room I |
|--|---|--|--|--|---|--|
| Invited lecture 8.45-9.25 Neurology | | | | | | |
| Break | | | | | | |
| | 9.40-10.55 Neurology I | 9.40-10.55 Cardiology IV | 9.40-10.55 Pulmonary diseases I | 9.40-10.55 Bone/joint diseases | 9.40-12.45 Technicians session | 10.00-12.00 Software Task Group Business Meeting |
| Coffee | | | | | | |
| | 11.15-12.45 Neurology II | 11.15-12.45 Cardiology V | 11.15-12.45 Pulmonary diseases II | 11.15-12.45 Circulation | Invited papers (English and German) | |
| Lunch | | | | | | |
| 12.45-13.45 Mallinckrodt Lunch Meeting | 14.00-15.25 Poster Disc Cardiology I | 14.00-15.25 Poster Disc Gastro- enterology Endocrine I | 14.00-15.25 Poster Disc SPECT, PET, NMR Computers Radiopharm. chem. New radiopharm. I | 14.00-15.25 Poster Disc Neurology | 14.00-15.25 Technicians session German speaking Free papers | 13.00-14.00 Eur J Nud Med Editorial Board Meeting |
| Tea | | | | | | |
| | 15.40-17.00 Poster Disc Cardiology II Circulation Lung 17.00-18.30 SNME Members Assembly | 15.40-17.00 Poster Disc Endocrine II Thyroid Immunos- cinography Haematology | 15.40-17.00 Poster Disc New radiopharm. II New RIA Therapy | 15.40-17.00 Poster Disc Nephrology Bone/joint diseases | | 17.00-18.30 ENMS Delegates Extraordinary Meeting |
| Social Programme: 20.30 Banquet in Congress Palace | | | | | | |

Friday, August 28th

| Plenary Session Hall | Hall A | Hall B | Hall C | Hall D | Hall M | Conference Room I |
|---|-----------------------------|-------------------------------|---------------------------------|---------------------------------|--------|---|
| | 8.30-9.45 Neurology III | 8.30-9.45 Cardiology VI | 8.30-9.45 Work in Progress | 8.30-9.45 Work in Progress | | 9.00-10.00 Linking Committee Meeting |
| Coffee | | | | | | |
| | 10.00-11.15 Neurology IV | 10.00-11.15 Cardiology VII | 10.00-11.15 Work in Progress | 10.00-11.15 Work in Progress | | 10.00-11.15 EANM Board Meeting |
| Break | | | | | | |
| 11.20-12.00 Highlights lecture 12.00-12.30 Closing ceremony | | | | | | |
| Social Programme: 12.30 Farewell Party 15.00 Tennis Championship | | | | | | |

To Carol B. Baker, CAB/OMS From Dr. James E. Crook, MHSD
Date January 28, 1988 Copies to R. Butturini, File
Subject LATENESS OF FOREIGN TRIP REPORT: EUROPEAN NUCLEAR MEDICINE CONGRESS-1987,
BUDAPEST, HUNGARY, AUGUST 21-30, 1987.

As per your request, the following is a partial list of reasons why the above cited foreign trip report preparation was delayed:

(1) I was awaiting the completed, itemized expense statement from American Express. As you of course know, foreign statements are often late in being posted to U. S. accounts, the actual amount being billed depends on the currency exchange rate in effect in the world monetary markets on the date of entry of the transaction (not on the date that the transaction took place) and American Express charges a 1 1/2% fee for handling the transaction of foreign currency to U. S. dollars. This actual figure was needed to compute the full cost of the trip.

(2) At the time, my program did not have a permanent secretary although such an individual was under active consideration.

(3) Dr. Lee Washburn was in the process of completing an NIH competing continuation grant application to meet the DOE deadline and secretarial assistance was required for this.

(4) I was in the process of carrying out the other duties and responsibilities that go with being a program manager.

Should you require additional information, please let me know.

JEC:cdg



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37831-0117

Executive
Office

February 9, 1988

Mr. William D. Adams, Director
Research and Waste Management Division
Department of Energy
Oak Ridge, Tennessee 37831

Subject: TRANSMITTAL OF FOREIGN TRIP REPORT
JAMES E. CROOK - BUDAPEST, HUNGARY

Dear Mr. Adams:

Nine copies of the subject report are enclosed.
This report does not contain any proprietary data.

We apologize for any inconveniences caused to your
staff as a result of this late submission. Enclosed is a
memorandum from Dr. Crook detailing his reasons for delayed
preparation.

Sincerely yours, <


William E. Felling
Executive Director

BAKER

Enclosures

1128330

FEB 1 1988

Dr. William E. Felling
Executive Director
Oak Ridge Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37831

Dear Dr. Felling:

DELINQUENT TRIP REPORT BY JAMES E. CROOK, ORAU

Reference is made to your submission of DOE F 1512.1 by your letter to me dated June 30, 1987, covering the travel by James E. Crook to Budapest, Hungary, during the period August 21-30, 1987.

A trip report is required on all foreign travel and is due 25 days following the traveler's return to duty station. We have advised you of this formally and followed up with your staff informally. However, we have not received a report covering this travel to date.

Please assure that a report is submitted promptly.

Sincerely,

ORIGINAL SIGNED BY
M. G. WALLACE

WDA
W. D. Adams, Director
Research and Waste Management Division

ER-122:Wallace

cc: J. A. Lenhard, ER-10, ORO
D. J. Cook, DP-32, ORO

ER-122:Wallace:sp:6-0714:1-28-88

| CONCURRENCES | |
|---------------|---------|
| RTS. SYMBOL | ER-122 |
| INITIALS/SIG. | WALLACE |
| DATE | 1/28/88 |
| RTS. SYMBOL | |
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| DATE | |

1128331

I-0177

1516 ORAU

SEP 29 1987

Dr. William E. Felling
Executive Director
Oak Ridge Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37831

Dear Dr. Felling:

APPROVAL OF FOREIGN TRAVEL BY JAMES E. CROOK, ORAU

Reference is made to your submission of DOE F 1512.1 by your letter to me dated June 30, 1987, covering the travel by James E. Crook to Budapest, Hungary, during the period August 21-30, 1987.

This is to confirm the verbal notification provided to your staff that the travel was approved as outlined in the referenced form. You are authorized charge the cost of the travel (~\$2,325) to DOE Budget Activity NA 02 07 01.

A trip report will be required for this travel. For the traveler's convenience, enclosed is a copy of the guidelines which should be followed in the preparation of the trip report. As noted in the guidelines, trip reports are required within 25 days after the traveler's return to duty station. In turn ORAU is required to submit nine copies of the trip report to us as soon as possible thereafter.

Sincerely,

ORIGINAL SIGNED BY
M. C. WALLACE

W. D. Adams, Director
Research and Waste Management Division

ER-122:Wallace

cc: J. A. Lenhard, ER-10, ORO
D. J. Cook, DP-82, ORO

ER-122:MWallace:wp:6-0714:9-28-87

*11/3/87 Notified C. Baker,
ORAU, that trip report is
past due. M.W.*

| CONCURRENCES | |
|--------------|---------|
| RTS SYMBOL | ER-122 |
| INITIALS | Wallace |
| DATE | 9/29/87 |
| RTS SYMBOL | |
| INITIALS | |
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1120332

memorandum

DATE: SEP 4 1987

REPLY TO
ATTN OF: ER-622

SUBJECT: Approved 1512.1's

TO: Margie Wallace, ER-122
Agreement Administrative Specialist
Oak Ridge Operations Office

Please find attached approved 1512.1's for the foreign travel of the following individuals:

~~_____~~
Johnson, Noah R. Jr. - ORNL
Knapp, Furn F. Jr. - ORNL
Liu, Samuel Hsi-Peh - ORNL
Plasil, Franz - ORNL
Ratledge, Joseph E. - ORNL
Stocks, George Malcolm - ORNL

A trip report is required from each traveler upon completion of his/her travel. If the travel was cancelled or revised in any way, please advise us.

Robert L. Main
Robert L. Main
Office of Management
Office of Energy Research

Attachment(s)

1128333

W 4162

REQUEST FOR APPROVAL OFFICIAL FOREIGN TRAVEL

(Previous Editions are Obsolete)

PART B--To be completed by traveler's administrative officer

Budget and Reporting Classification to be charged: HA 02 07 01 0
(see Chapter II, Accounting Practices and Procedures Handbook)

PART C--To be completed by traveler

| | |
|--|--|
| 1a. NAME OF TRAVELER James E. Crook, M.D., Ph.D. | c. DATE AND PLACE OF BIRTH [REDACTED] Maryland, U.S.A. [REDACTED] |
| b. CITIZENSHIP U.S.A. | d. PASSPORT NUMBER (if available) [REDACTED] |
| 2a. HOME ADDRESS [REDACTED] | b. BUSINESS ADDRESS P. O. Box 117 (FTS Tel: 626-3102) Oak Ridge, TN 37831-0117 |
| 3a. EMPLOYER Oak Ridge Associated Universities | c. TELEPHONE NUMBER [REDACTED] |
| b. ORGANIZATIONAL UNIT Medical and Health Sciences Division | c. CONTRACT NUMBER US DOE DE-AC05-76OR00033 |
| d. POSITION TITLE (including profession) Director, Radiopharmaceutical Development & Preclinical Nuclear Medicine | |

4. PURPOSE OF TRAVEL--include all pertinent background information leading to travel and attach copies of invitations and correspondence regarding travel to present papers, give speeches, or to attend conference or symposia. Justification for travel must be provided including benefit to be derived by the government if trip is taken. Also identify by name and organization other DOE and contractor personnel who, to the traveler's knowledge, are going to the same destination at the same time as the traveler. In addition, specify nature and classification of information to be disclosed including titles of papers to be presented; nature of information to be obtained at each of the places to be visited and conferences to be attended and its relation to traveler's work. Travelers are responsible for obtaining clearances for papers or speeches when necessary. If more space is required, attach a separate sheet. NOTE: IF THIS INFORMATION IS CLASSIFIED BE SURE TO CLASSIFY THIS FORM APPROPRIATELY.

The purpose of this travel is to attend the European Nuclear Congress meeting from August 24 through August 28, 1987 in Budapest, Hungary. This is a joint meeting between the Society of Nuclear Medicine - Europe, the European Nuclear Medicine Society, and the Hungarian Nuclear Medicine Society which will focus on new trends and possibilities in nuclear medicine.

As Director of the Radiopharmaceutical Development and Preclinical Nuclear Medicine program for the Department of Energy at Oak Ridge Associated Universities, I feel the papers and information to be presented at this meeting are central to DOE's programmatic interests. The meeting affords a unique opportunity for exchange of timely scientific information with other investigators and to learn of the most recent progress in nuclear medicine.

Additional personnel attending from Oak Ridge Associated Universities is Dr. Asaf Durakovic, Associate Chief, Radiation Medicine.

Attached are copies of pertinent correspondence and workshop announcements.

1128334

| DATES | LOCATION (Installation, City, Country) | INDIVIDUALS TO BE CONTACTED | SUBJECTS OF DISCUSSION | (Check One) | |
|----------|---|-----------------------------|--|-------------|--------------|
| | | | | Classified | Unclassified |
| 8/21/87 | Oak Ridge-Budapest, Hungary | | | | X |
| 8/22/87 | Arrive Budapest, Hungary | | To attend the European Nuclear Congress meeting August 24-28, 1987 | | X |
| 8/24/87- | Attending meeting | | | | |
| 8/28/87 | Attending meeting | | | | |
| 8/30/87 | Leave Budapest, Hungary | | | | X |
| 8/30/87 | Arrive Oak Ridge, TN | | | | X |

6. HAS TRAVELER SUBMITTED DOE FORM 1812.2 TO COGNIZANT DOE SECURITY OFFICE? (Required for travel to a sensitive country by an individual who currently holds or has ever held, within the last 5 years, a DOE Access Authorization.)

YES NO: Have not held a DOE Access Authorization within last 5 years

7. SIGNATURE OF TRAVELER—By signing, the traveler acknowledges the obligation to file a trip report within 30 days of return to duty station.

James B. Crook (Signature) June 23, 1987 (Date)

PART D—To be completed by official responsible for travel funds

8a. ESTIMATED COST OF TRAVEL TO DOE

| | | |
|----------------------------|-------------|----------|
| Transportation | \$ 1,345.20 | |
| Per Diem and Miscellaneous | \$ 980.00 | 956.00 |
| Total: | \$ 2,325.20 | 3,322.00 |

8b. IF PART OF COST OF TRAVEL IS TO BE PAID OR HAS BEEN REQUESTED FROM SOURCES OTHER THAN DOE, INDICATE SOURCE AND AMOUNT

N/A

TRAVEL FUNDS ARE NOW AVAILABLE FOR THIS TRIP

Billie P. Ryan 6/25/87 William F. Countess 7/1/87
 Division Business Office (Signature and Title) (Date) William F. Countess, Manager of Finance (Date)

PART E—To be completed by Traveler's supervisor

9. REVIEW AND COMMENTS:

William W. Burch 6/25/87 William E. Felling 7/1/87
 Division Chairman (Signature and Title of Supervisor) (Date) William E. Felling, Executive Director (Date)

PART F—To be completed at DOE Field Organization

10. NON SENSITIVE TRAVEL: Review/approval by Head of DOE Field Organization. (Approval may be given if such authority has been delegated by the Cognizant Secretarial Officer.)

W. D. Adams W. D. Adams, Director
 (Signature) Research and Waste Management Division 7/20/87 (Date)

11. SENSITIVE TRAVEL: Review by Head of DOE Field Organization. Has Field Security reviewed DOE F 1812.2 and completed DOE F 1812.3?

YES NO

PART G—To be completed at Headquarters

12. REVIEW/COMMENTS BY DIRECTOR OF DIVISION OR OFFICE

James S. Robertson James S. Robertson, M.D., Ph.D.
 (Signature) Human Health and Assessments Division 7/29/87 (Date)

13. COGNIZANT SECRETARIAL OFFICER

IF DOE EMPLOYEE TRAVEL IE Determination Received
 IF SENSITIVE TRAVEL IE Determination Received ISA Determination Received
Charles Delisi 7/31/87
 Associate Director for Health and Environmental Research
 Office of Energy Research

OSS Determination Received
 1126335
 (Date)

EUROPEAN NUCLEAR MEDICINE CONGRESS

Budapest, Hungary · August 24th-28th, 1987

Registration Form

Please return this form not later than June 20th to:

Ms. D. Kanizsay
OTP-Penta Tours Kft.
H-1453 Budapest 92, POB 34
HUNGARY
Telephone: 36-1-189541. Telex: 22-7789

Please use typewriter or CAPITAL LETTERS

PARTICIPANT

Family Name C R O O K

First Name(s) J A M E S E

Institution Oak Ridge Associated Universities

Division or Dept. Medical and Health Sciences Division

Zip code, City O A K R I D G E T E N N E S S E E 3 7 8 3 1

Street P O S T O F F I C E B O X 1 1 7

Country U S A

Citizenship American Telephone 615-576-3102

Member: ENMS SNME Non-Member Exhibitor Technician

ACCOMPANYING PERSON(S) (not participating in sessions)

Name(s) _____

Citizenship _____

REGISTRATION FEE

| | until June 20th | after June 20th, 1987 |
|--------------------------------|----------------------------------|--|
| NON-MEMBER | <input type="checkbox"/> CHF 210 | <input checked="" type="checkbox"/> CHF 300 x 1 pers. = CHF <u>300</u> |
| TECHNICIAN NON-MEMBER | | |
| Full Congress registration | <input type="checkbox"/> CHF 50 | <input type="checkbox"/> CHF 100 x 1 pers. = CHF _____ |
| Programme for technicians only | <input type="checkbox"/> CHF 50 | <input type="checkbox"/> CHF 100 x 1 pers. = CHF _____ |
| EXHIBITOR | <input type="checkbox"/> CHF 35 | <input type="checkbox"/> CHF 50 x 1 pers. = CHF _____ |

SOCIAL PROGRAMME

Concert in the Matthias Church
August 25th, 7.00 p.m. CHF 8 x _____ pers. = CHF _____

Banquet and Dance
August 27th, 8.30 p.m. CHF 60 x _____ pers. = CHF _____

Farewell Lunch
August 28th, 0.30 p.m. CHF 30 x _____ pers. = CHF _____

Tennis
August 28th-29th

singles for men: younger than 50 years older than 50 years

singles for women

doubles: for men for women CHF 40 x _____ pers. = CHF _____

1120336

LADIES' PROGRAMME

Sight-seeing
 August 25th 26th 27th 28th CHF 14 x ___ pers. = CHF _____

Fitness programme on Margaret Island
 August 25th CHF 29 x ___ pers. = CHF _____

Cooking course
 August 26th 27th CHF 35 x ___ pers. = CHF _____

Walking tour in Buda Castle
 August 28th CHF 20 x ___ pers. = CHF _____

Excursion to Szentendre
 August 25th 27th CHF 39 x ___ pers. = CHF _____

Excursion to Esztergom
 August 26th CHF 40 x ___ pers. = CHF _____

Excursion to the Hungarian puszta
 August 26th CHF 65 x ___ pers. = CHF _____

Sum carried over = CHF 300

HOTEL RESERVATION

Deadline June 20th, 1987
 After the deadline, hotel rooms in all categories cannot be guaranteed.

Date of arrival: _____ 1987
 Date of departure: _____ 1987 _____ nights

Please indicate desired type and number of rooms (the rates are per night, per room):

| Hotel Category | Single room with bath | Double room with bath |
|------------------|--------------------------------------|--------------------------------------|
| De Luxe (*****) | <input type="checkbox"/> CHF 170-200 | <input type="checkbox"/> CHF 210-260 |
| A (****) | <input type="checkbox"/> CHF 110-130 | <input type="checkbox"/> CHF 135-170 |
| B (***) | <input type="checkbox"/> CHF 70-110 | <input type="checkbox"/> CHF 100-135 |
| C (**) | <input type="checkbox"/> CHF 50- 60 | <input type="checkbox"/> CHF 40- 50 |
| Students' Hostel | room with 3 or 4 beds | <input type="checkbox"/> CHF 40- 50 |

Expo Autocamping Budapest number of caravans: _____

Accommodation can be ensured only upon receipt of a hotel deposit:

Category de Luxe, A and B CHF 260 = CHF _____
 Students' Hostel and C CHF 75 = CHF _____

I wish to share my room with _____

OPTIONAL TOURS

Western Hungary CHF 215 x ___ pers. = CHF _____
 August 22nd-23rd single supplement CHF 50 = CHF _____

North-Eastern Hungary CHF 570 x ___ pers. = CHF _____
 August 20th-23rd single supplement CHF 135 = CHF _____

Northern and Eastern Hungary CHF 275 x ___ pers. = CHF _____
 August 29th-30th single supplement CHF 50 = CHF _____

Western Hungary CHF 480 x ___ pers. = CHF _____
 August 29th-September 1st single supplement CHF 135 = CHF _____

PAYMENT (in CHF)

See General Information! All rates given may be subject to change!

Total amount CHF 300

1128337

Enclosed: cheque CHF 300

Copy of the bank draft CHF _____

JUL 20 1987

ER-122:Wallace

PROPOSED SENSITIVE TRAVEL BY ORAU REPRESENTATIVES

Charles DeLisi, Associate Director, Office of Health and Environmental Research, ER-70, Headquarters, Germantown, Maryland

Attached for DOE Headquarters approval are three copies each of DOE F 1512 covering the proposed travel to Hungary during the period August 21-30, 1987 by ORAU representatives as follows:

~~XXXXXXXXXX~~
Asaf Durakovic

The travelers will attend the European Nuclear Congress in Budapest, Hungary during the period August 24-28, 1987. This is a joint Congress among The Society of Nuclear Medicine-Europe, The European Nuclear Medicine Society, and The Hungarian Nuclear Medicine Society, which will focus on new trends and possibilities in nuclear medicine.

The estimated cost to DOE for this travel is \$2,325 to DOE Budget Activity NA 02 07 01 for Dr. Crook's travel and \$2,245 to DOE Budget Activity NA 02 01 01 for Dr. Durakovic's travel.

Please have Margie Wallace (FTS 626-0714) notified as soon as a determination is made regarding the travel and return the signed originals of DOE F 1512 to this office.

8/19/87 Rec'd verbal approval for travel from Bob Main, ER-HQ. Notified B. Gouldy, ORNL. W.D. Adams, Director Research and Waste Management Division

Attachments

- cc w/atchmnts:
- D. B. Waller, IE-1, HQ, FORS
- A. B. Siebert, Jr., DP-33, HQ, FORS
- J. A. Lenhard, ER-10, ORO
- M. M. Dare, AD-43, ORO
- D. J. Cook, DP-82, ORO

7/23/87 Jim Rousseau called - Need to know by 1st of August if approved. Airline tickets price depends on decision.

Return to m.wallace

ER-122:MWallace:lh:6-0714:7/17/87(Retyped for clarification)

| |
|---|
| CONCURRENCE |
| RTG SYMBOL ER-122 WALLACE INITIALS/SIG <i>M. Wallace</i> |
| DATE 7/15/87 |
| RTG SYMBOL ER-122 DUNAWAY INITIALS/SIG <i>PD</i> |
| DATE 7/15/87 |
| RTG SYMBOL DP-82 KRAUSE INITIALS/SIG <i>[Signature]</i> |
| DATE 7-16-87 |
| RTG SYMBOL AD-40 MARQUESS INITIALS/SIG <i>[Signature]</i> |
| DATE |
| RTG SYMBOL ER-122 WALLACE INITIALS/SIG <i>adams/ra</i> |
| DATE 7/20/87 |
| INITIALS/SIG |
| DATE |
| RTG SYMBOL |
| INITIALS/SIG |
| DATE |
| RTG SYMBOL |
| INITIALS/SIG |
| DATE |

1128338

REQUEST FOR APPROVAL OFFICIAL FOREIGN TRAVEL

1910-2100

All Other Editions Are Obsolete

PART A-SUMMARY TRAVEL INFORMATION

ORGANIZATION: Oak Ridge Associated Universities

COST TO DOE: \$2,325.20

FUND SOURCE: HA 02 07 01 0

NAME OF TRAVELER: James E. Crook

DOE/CONTRACTOR/UNIVERSITY: C

DESTINATION: Budapest, Hungary

DATES: 8 / 21 / 87 TO 8 / 30 / 87

PURPOSE: To attend the European Nuclear Congress meeting on August 24-28, 1987
in Budapest, Hungary.

AGREEMENT: _____

DESTINATION: _____

DATES: / / TO / /

PURPOSE: _____

AGREEMENT: _____

DESTINATION: _____

DATES: / / TO / /

PURPOSE: _____

AGREEMENT: _____

DESTINATION: _____

DATES: / / TO / /

PURPOSE: _____

AGREEMENT: _____

1128339

REQUEST FOR APPROVAL OFFICIAL FOREIGN TRAVEL

(Previous Editions are Obsolete)

PART B--To be completed by traveler's administrative officer

Budget and Reporting Classification to be charged: HA 02 07 01 0
(see Chapter II, Accounting Practices and Procedures Handbook)

PART C--To be completed by traveler

| | |
|--|---|
| 1a. NAME OF TRAVELER James E. Crook, M.D., Ph.D. | c. DATE AND PLACE OF BIRTH [REDACTED], Maryland, U.S.A. [REDACTED] |
| b. CITIZENSHIP U.S.A. | d. PASSPORT NUMBER (if available) [REDACTED] |
| 2a. HOME ADDRESS [REDACTED] | d. BUSINESS ADDRESS P. O. Box 117 (FTS Tel: 626-3102) Oak Ridge, TN 37831-0117 |
| 3a. EMPLOYER Oak Ridge Associated Universities | c. CONTRACT NUMBER US DOE DE-AC05-76OR00033 |
| b. ORGANIZATIONAL UNIT Medical and Health Sciences Division | d. POSITION TITLE (including profession) Director, Radiopharmaceutical Development & Preclinical Nuclear Medicine |

4. PURPOSE OF TRAVEL--Include all pertinent background information leading to travel and attach copies of invitations and correspondence regarding travel to present papers, give speeches, or to attend conference or symposia. Justification for travel must be provided including benefit to be derived by the government if trip is taken. Also identify by name and organization other DOE and contractor personnel who, to the traveler's knowledge, are going to the same destination at the same time as the traveler. In addition, specify nature and classification of information to be disclosed including titles of papers to be presented; nature of information to be obtained at each of the places to be visited and conferences to be attended and its relation to traveler's work. Travelers are responsible for obtaining clearances for papers or speeches when necessary. If more space is required, attach a separate sheet. NOTE: IF THIS INFORMATION IS CLASSIFIED BE SURE TO CLASSIFY THIS FORM APPROPRIATELY

The purpose of this travel is to attend the European Nuclear Congress meeting from August 24 through August 28, 1987 in Budapest, Hungary. This is a joint meeting between the Society of Nuclear Medicine - Europe, the European Nuclear Medicine Society, and the Hungarian Nuclear Medicine Society which will focus on new trends and possibilities in nuclear medicine.

As Director of the Radiopharmaceutical Development and Preclinical Nuclear Medicine program for the Department of Energy at Oak Ridge Associated Universities, I feel the papers and information to be presented at this meeting are central to DOE's programmatic interests. The meeting affords a unique opportunity for exchange of timely scientific information with other investigators and to learn of the most recent progress in nuclear medicine.

Additional personnel attending from Oak Ridge Associated Universities is Dr. Asaf Durakovic, Associate Chief, Radiation Medicine.

Attached are copies of pertinent correspondence and workshop announcements.

1120540

| DATES | LOCATION (Installation, City, Country) | INDIVIDUALS TO BE CONTACTED | SUBJECTS OF DISCUSSION | (Check One) | |
|----------|---|-----------------------------|--|-------------|--------------|
| | | | | Classified | Unclassified |
| 8/21/87 | Oak Ridge-Budapest, Hungary | | | | X |
| 8/22/87 | Arrive Budapest, Hungary | | To attend the European Nuclear Congress meeting August 24-28, 1987 | | X |
| 8/24/87- | Attending meeting | | | | |
| 8/28/87 | Attending meeting | | | | |
| 8/30/87 | Leave Budapest, Hungary | | | | X |
| 8/30/87 | Arrive Oak Ridge, TN | | | | X |

6. HAS TRAVELER SUBMITTED DOE FORM 1812.2 TO COGNIZANT DOE SECURITY OFFICE? (Required for travel to a sensitive country by an individual who currently holds or has ever held, within the last 5 years, a DOE Access Authorization.)

YES NO: Have not held a DOE Access Authorization within last 5 years

7. SIGNATURE OF TRAVELER—By signing, the traveler acknowledges the obligation to file a trip report within 30 days of return to duty station.

James E. Crook (Signature) June 23, 1987 (Date)

PART D—To be completed by official responsible for travel funds

8a. ESTIMATED COST OF TRAVEL TO DOE

| | | |
|----------------------------|-------------|----------|
| Transportation | \$ 1,345.20 | |
| Per Diem and Miscellaneous | \$ 980.00 | 980.00 |
| Total | \$ 2,325.20 | 3,325.20 |

8b. IF PART OF COST OF TRAVEL IS TO BE PAID OR HAS BEEN REQUESTED FROM SOURCES OTHER THAN DOE, INDICATE SOURCE AND AMOUNT.

N/A

TRAVEL FUNDS ARE NOW AVAILABLE FOR THIS TRIP

Billie P. Ryan 6/25/87 William F. Countiss 7/1/87
 Division Business Office (Signature and Title) (Date) William F. Countiss, Manager of Finance (Date)

PART E—To be completed by Traveler's supervisor

9. REVIEW AND COMMENTS:

William W. Durr 6/28/87 William F. Eelling 7/1/87
 Division Chairman (Signature and Title of Supervisor) (Date) William F. Eelling, Executive Director (Date)

PART F—To be completed at DOE Field Organization

10. NON SENSITIVE TRAVEL: Review/approval by Head of DOE Field Organization. (Approval may be given if such authority has been delegated by the Cognizant Secretarial Officer.)

W. D. Adams (Signature) W. D. Adams, Director (Title) Research and Waste Management Division (Date) 7/20/87

11. SENSITIVE TRAVEL: Review by Head of DOE Field Organization. Has Field Security reviewed DOE F 1812.2 and completed DOE F 1812.37

YES NO

PART G—To be completed at Headquarters

12. REVIEW/COMMENTS BY DIRECTOR OF DIVISION OR OFFICE

 (Signature) (Title) (Date)

13. COGNIZANT SECRETARIAL OFFICER

IF DOE EMPLOYEE TRAVEL IE Determination Received
 IF SENSITIVE TRAVEL IE Determination Received ISA Determination Received OSS Determination Received

 (Signature) (Date)

EUROPEAN NUCLEAR MEDICINE CONGRESS

Budapest, Hungary · August 24th - 28th, 1987

Registration Form

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Ms. D. Kanizsay
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H-1453 Budapest 92, POB 34
HUNGARY
Telephone: 36-1-189541. Telex: 22-7789

Please use typewriter or CAPITAL LETTERS

PARTICIPANT

Family Name C R O O K
First Name(s) J A M E S E
Institution Oak Ridge Associated Universities
Division or Dept. Medical and Health Sciences Division
Zip code, City O A K R I D G E T E N N E S S E E 3 7 8 3 1
Street P O S T O F F I C E B O X 1 1 7
Country U S A
Citizenship American Telephone 615-576-3102
Member: ENMS SNME Non-Member Exhibitor Technician

ACCOMPANYING PERSON(S) (not participating in sessions)

Name(s) _____

Citizenship _____

REGISTRATION FEE

| | until June 20th | after June 20th, 1987 |
|--------------------------------|----------------------------------|--|
| NON-MEMBER | <input type="checkbox"/> CHF 210 | <input checked="" type="checkbox"/> CHF 300 x 1 pers. = CHF <u>300</u> |
| TECHNICIAN NON-MEMBER | | |
| Full Congress registration | <input type="checkbox"/> CHF 50 | <input type="checkbox"/> CHF 100 x 1 pers. = CHF _____ |
| Programme for technicians only | <input type="checkbox"/> CHF 50 | <input type="checkbox"/> CHF 100 x 1 pers. = CHF _____ |
| EXHIBITOR | <input type="checkbox"/> CHF 35 | <input type="checkbox"/> CHF 50 x 1 pers. = CHF _____ |

SOCIAL PROGRAMME

Concert in the Matthias Church
August 25th, 7.00 p.m. CHF 8 x ____ pers. = CHF _____

Banquet and Dance
August 27th, 8.30 p.m. CHF 60 x ____ pers. = CHF _____

Farewell Lunch
August 28th, 0.30 p.m. CHF 30 x ____ pers. = CHF _____

Tennis
August 28th-29th
singles for men: younger than 50 years older than 50 years
 singles for women
doubles: for men for women CHF 40 x ____ pers. = CHF _____

1128342

LADIES' PROGRAMME

Sight-seeing

August 25th 26th 27th 28th

Sum carried over = CHF 300

CHF 14 x ___ pers. = CHF _____

Fitness programme on Margaret Island

August 25th

CHF 29 x ___ pers. = CHF _____

Cooking course

August 26th 27th

CHF 35 x ___ pers. = CHF _____

Walking tour in Buda Castle

August 28th

CHF 20 x ___ pers. = CHF _____

Excursion to Szentendre

August 25th 27th

CHF 39 x ___ pers. = CHF _____

Excursion to Esztergom

August 26th

CHF 40 x ___ pers. = CHF _____

Excursion to the Hungarian puszta

August 26th

CHF 65 x ___ pers. = CHF _____

HOTEL RESERVATION

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Date of arrival: _____ 1987

Date of departure: _____ 1987 _____ nights

Please indicate desired type and number of rooms (the rates are per night, per room):

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|------------------|--------------------------------------|--------------------------------------|
| De Luxe (*****) | <input type="checkbox"/> CHF 170-200 | <input type="checkbox"/> CHF 210-260 |
| A (****) | <input type="checkbox"/> CHF 110-130 | <input type="checkbox"/> CHF 135-170 |
| B (***) | <input type="checkbox"/> CHF 70-110 | <input type="checkbox"/> CHF 100-135 |
| C (**) | <input type="checkbox"/> CHF 50- 60 | <input type="checkbox"/> CHF 40- 50 |
| Students' Hostel | room with 3 or 4 beds | <input type="checkbox"/> CHF 40- 50 |

Expo Autocamping Budapest number of caravans: _____

Accommodation can be ensured only upon receipt of a hotel deposit:

Category de Luxe, A and B CHF 260 = CHF _____
 Students' Hostel and C CHF 75 = CHF _____

I wish to share my room with _____

OPTIONAL TOURS

- Western Hungary** CHF 215 x ___ pers. = CHF _____
August 22nd-23rd single supplement CHF 50 = CHF _____
- North-Eastern Hungary** CHF 570 x ___ pers. = CHF _____
August 20th-23rd single supplement CHF 135 = CHF _____
- Northern and Eastern Hungary** CHF 275 x ___ pers. = CHF _____
August 29th-30th single supplement CHF 50 = CHF _____
- Western Hungary** CHF 480 x ___ pers. = CHF _____
August 29th-September 1st single supplement CHF 135 = CHF _____

PAYMENT (in CHF)

See General Information! All rates given may be subject to change!

Total amount CHF 300

1126343

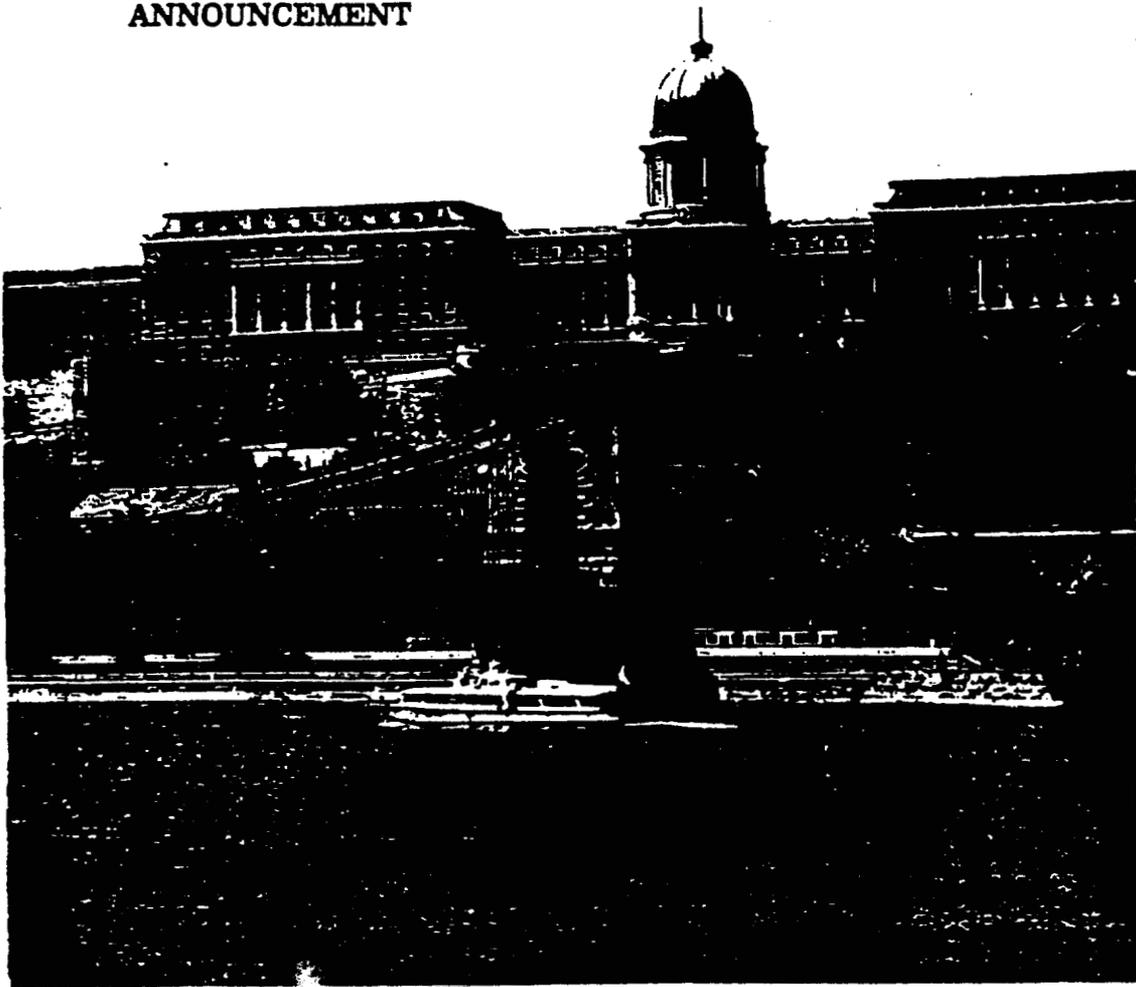
Enclosed: cheque CHF 300

Copy of the bank draft CHF _____

1987

BUDAPEST · HUNGARY
AUGUST 24-28, 1987

**SECOND
ANNOUNCEMENT**



1120344

A world-wide presence in biotechnology

Centocor is a leading source of innovative products based on monoclonal antibodies and genetic engineering. Our diagnostics and biopharmaceuticals are under investigation for use in human health care in the fields of cancer and cardiovascular disease.

Myosclint™ monoclonal antibody based imaging agent. Myosclint identifies necrotic cardiac tissue and may be useful in managing myocardial infarct patients. Available in selected countries in Europe.

Access to leading-edge research. Centocor's collaborative arrangements with over 20 leading research centers throughout the world keep us at the forefront of medical science.

Emphasis on implementation. Timely product development is key at

Centocor. We quickly turn research insights into practical products.

Commitment to manufacturing. Our new 3,716 sq. meters facility in Leiden, The Netherlands - headquarters for Centocor Europe BV - contains the most advanced technology available for the manufacture of Centocor products. It complements our corporate manufacturing and research center in Malvern, Pennsylvania, U.S.A.

*Manufacturing headquarters of
Centocor Europe BV in Leiden,
The Netherlands*



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1128345

Contents

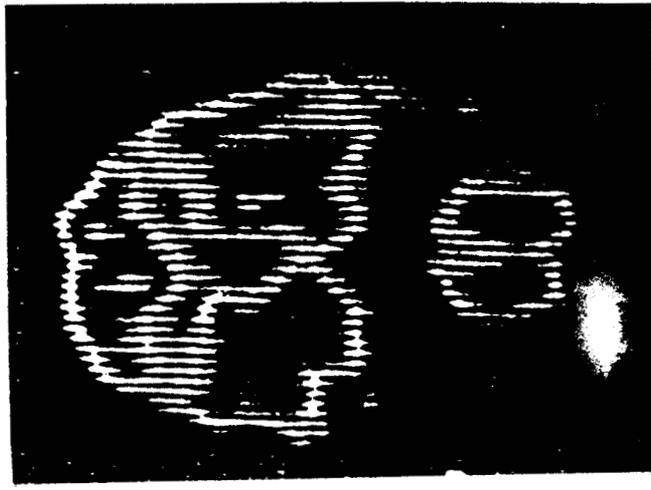
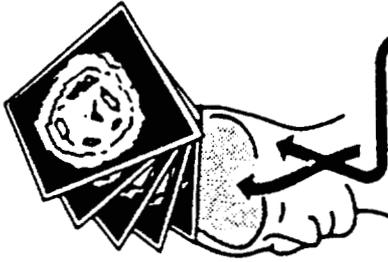
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| 4 | Officials of the Participating Societies |
| 6 | Congress Organization |
| 8 | Opening Ceremony |
| 10 | Scientific Programme |
| 22 | General Information |
| 22 | Important Dates |
| 26 | Social Programme |
| 27 | Ladies' Programme and Excursions |
| 29 | Time-Table |
| 30 | Optional Tours |
| 3 CP | Insertion |

Cover: Old Royal Palace - National Gallery

Photo: Ottó Vahl, Budapest

Ceretec

Technetium HM-PAO agent
for rCBF scintigraphy



Case study: Dementia

The differential diagnosis of Alzheimer's disease and multi-infarct dementia is often difficult from clinical signs. This patient, a 57 year old female, started to become progressively demented 3 years ago. According to the neurological examination Alzheimer's disease was suspected. CT showed atrophic changes.

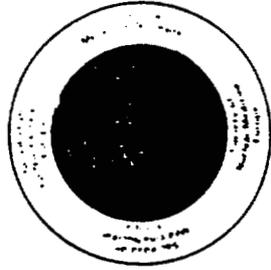
CT revealed extensive low tracer deposition in both parietal temporal lobes, typical of Alzheimer's disease.

CT was performed with a Siemens Rota ZLC 37 dual head collimation camera and a Nodecrest Micas computer with MBq(19.3mCi) Ceretec. Scanning time was 30 minutes.

Amersham

Amersham Pharmacia Biotech GmbH
D-69126 Heidelberg, Germany
Amersham Pharmacia Biotech AG
D-69126 Heidelberg, Germany

1128346



EUROPEAN NUCLEAR MEDICINE CONGRESS 1987

International Fair Centre of Hungexpo · Budapest · August 24 - 28, 1987

PARTICIPATING ORGANIZATIONS

- The Society of Nuclear Medicine · Europe
25th Meeting
- The European Nuclear Medicine Society
10th Meeting
- The Hungarian Nuclear Medicine Society
5th Meeting

Address of Congress Secretariat

European Nuclear Medicine Congress 1987
Institute of Nuclear Medicine
University Medical School
Korányi fasor 8, Pf. 469
H-6720 Szeged, Hungary
Telephone: 00-36-62-11170



DEMETER VERLAG · D-8032 GRÄFELFING

Officials of the Participating Societies

EUROPEAN NUCLEAR MEDICINE SOCIETY

Executive Committee
 President J. B. van der Schoot
 Vice-President H. Deckart
 Secretary P. J. Eil
 Treasurer E. K. J. Pauwels

National Delegates

| | | | |
|----------|----------------------------------|----------------|------------------------------------|
| Austria | H. Bergmann, G. Leeb | Netherlands | P. Inia, P. van Urk |
| Belgium | P. Blockx, M. De Roo | Norway | M. Aas, K. Rootwelt |
| Bulgaria | N. N., N. N. | Poland | W. Graban, A. Tarkowska |
| CSSR | K. Bakos, I. Makaiova | Portugal | A. Baptista, J. Pedroso de Lima |
| Denmark | B. Hesse, O. Munck | Romania | N. N., N. N. |
| Finland | E. Vauramo, M. Vorne | Spain | J. Setoain, J. Teijeiro-Vidal |
| France | A. Bertrand, S. Askienazy | Sweden | M. Dahlborn, R. Lewander |
| F.R.G. | H. Hundeshagen, E. Oberhausen | Switzerland | B. Delaloye, H. Rösler |
| G.D.R. | H. Deckart, W. Finck | Turkey | M. T. Ercan, N. Tartaroglu |
| Greece | P. Kostamis, C. Koutoulidis | United Kingdom | N. W. Garvie, N. Veall |
| Hungary | L. Csernay, M. Horváth | Yugoslavia | K. Kostic, A. Musafija |
| Italy | G. Galli, G. L. Turco | | |

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 Vice-President L. Kocsár, T. Maschek,
 A. Veres, P. Vittay
 General Secretary Gy. Molnár
 Secretary I. Krasznai
 Assistant Secretary I. Szilvási
 Treasurer B. Kanyár
 Auditor J. Földes

Officials of the Participating Societies

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 SOCIETY OF NUCLEAR MEDICINE - EUROPE -
 SOCIÉTÉ DE MÉDECINE NUCLÉAIRE - EUROPE -
 SOCIEDAD DE MEDICINA NUCLEAR - EUROPA -

President - Président - Presidente

Board - Board - Comité - Presidencia

G. Buraggi
 H. A. E. Schmidt

Members

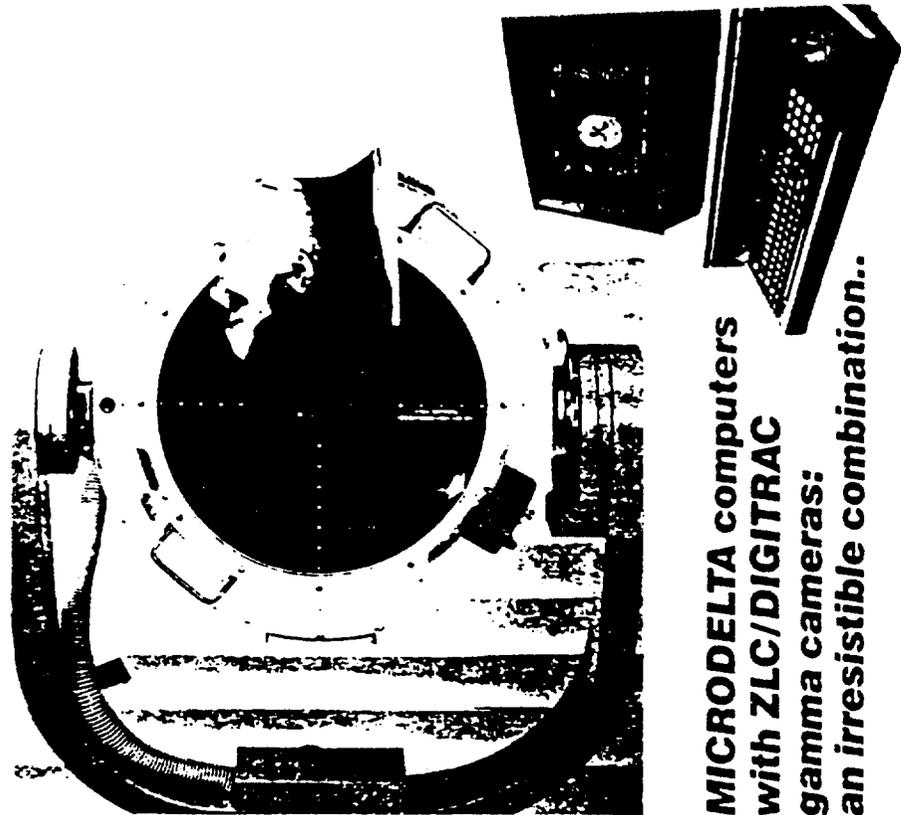
Advisory Council - Consell Consultatiu - Consejo Consultivo

| | | |
|----------------|------------------|-------------|
| C. Fueger | W. Naegele | H. Schicha |
| G. Hoffmann | E. Oberhausen | B. Varl |
| W. Horst | K. Oeff | E. Vauramo |
| H. Hundeshagen | J. Ortiz-Berrocá | C. Winkler |
| W. Keiderling | H. W. Pabst | M. Woldring |
| P. Kostamis | G. Riccabona | F. Wolf |
| G. Merchie | H. Rösler | |
| T. Munkner | G. Samson | |

Members

| | | |
|-------------|----------------|-------------|
| A. Mostbeck | Netherlands | P. van Urk |
| J. Frühling | Norway | M. Aas |
| O. Munck | Poland | M. Gembicki |
| M. Vorne | Portugal | A. Baptista |
| J. Valeyre | Spain | M. Ramos |
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| C. Macri | United Kingdom | V. McCready |

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in Diagnostic
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 - interfaces to any gamma camera imaging system
 - compact modular design
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- Siemens set standards with its ZLC/DIGITRAC gamma camera detectors, and now with MICRODELTA combines outstanding camera performance with a future-oriented image processor
- The new MICRODELTA data systems offer:
- programmability with simple MLDIC language

Congress Organization

Congress Organization

Patron-in-Chief of the Congress:
Judith Csehák, Vice-Premier of Hungary

Chairman: L. Csernay
General Secretary: Gy. Jánoki
Secretary: I. Krasznai

Treasurer: Gy. Molnár
Exhibition: Gy. Jánoki

Local Organizing Committee

B. AndrÉka
Zs. Antal
K. Csernay-Somogyi
J. Gere

L. Kertész
E. Kéri
J. Pártos
A. Rubányi

V. Sas
P. Sági
I. Szilvási

International Scientific Committee

J. B. van der Schoot ENMS D. Emrich SNME J. Földes HSNM
H. Deckart ENMS G. Hör SNME M. Horváth HSNM
A. Bischof-Delaloye ENMS A. Mostbeck SNME L. Kertész HSNM

Official Organizing Offices

General organization and information:
Congress Bureau MOTESZ
H-1361 Budapest, POB 32
Phone: 36-1-125012
Telex: 22-4204 EVM/MOTESZ
Please contact:
Mrs. A. Rubányi, Mrs. E. Kéri

Registration, hotel accommodation and travel arrangements:
OTP-Penta Tours Kft.
H-1453 Budapest 92
POB 34
Phone: 36-1-189541
Telex: 22-7789

Exhibition:

International Fair Centre of Hungexpo
H-1441 Budapest, POB 44
Phone: 36-1-479900
Telex: 22-4684 Hexpo
Please contact: Mrs. J. Pártos

Official Language

English

Official Carrier

Swissair

Scientific Programme

Pre-congress Meetings

vs. SPECT

Monday, August 24th, 9.00 a.m. - 1.00 p.m.
 Hotel Atrium-Hyatt, Budapest
 Prof. H. J. Biersack and Prof. U. Büll

1. Principles of functional imaging with PET
 L. E. Feinendegen
2. Principles of functional imaging with SPECT
 H. J. Biersack
3. Results of functional imaging
 Brain: PET: R. Frackowiak SPECT: P. Ell
 Heart: PET: P. Rigo SPECT: H. Sochor
 Tumor: PET: H. Schober SPECT: A. Bischof-Delaloye

4. ECT aspects in the USA
 H. Wellman
5. What can be transferred from PET to SPECT?
 U. Büll

6. Economic considerations of PET
 P. Piontek
 Discussion

Maximum 120 persons
 CHF 45
 See below

I. Szilvási
 Postgraduate Medical School, Department of Radiology
 H-1389 Budapest, POB 112, HUNGARY

Scientific Programme

Knowledge-Based Systems (KBS) in Nuclear Medicine

Monday, August 24th, 9.00 a.m. - 3.30 p.m.
 Hotel Forum, Budapest
 Prof. D. P. Pretschner, Prof. P. E. Asard and E. SantaTóth

- Programme
1. State of the art in knowledge-based systems (KBS)
 E. SantaTóth
 2. Artificial intelligence and pattern recognition in medicine
 N. Saranummi
 3. Tools and shells for KBS in medicine
 T. L. Reichertz
 4. What could a KBS in nuclear medicine mean?
 P. E. Asard
 5. Development of extra systems for planar Tl 201 scintigraphy
 with clinical results
 J. H. C. Reiber

6. Prolog and extra data base for interpretation of Tl 201
 scintigrams
 S. Rosenberg

7. Computerized clinical knowledge to improve diagnosis of
 thyroid diseases
 S. Ellam and M. N. Maisey

8. Demonstrations of KBS with cardiac, hepatic and renal
 studies
 (IBM PC AT and COMPAQ)

Participation Maximum 60 persons
 Fee CHF 65 (including lunch)
 Payment See below

Local organizer
 I. Szilvási
 Postgraduate Medical School, Department of Radiology
 H-1389 Budapest, POB 112, HUNGARY

Scientific Programme

NMR - Principles and Applications (Satellite Symposium)

| | |
|-------------------|---|
| Date | Friday, August 21st - Monday, August 24th |
| Location | Hotel Löyer, Sopron (60 km from Vienna) |
| Chairmen | Prof. J. Chambron and R. Bauer |
| Programme | Detailed programme in preparation |
| Main topics | Physics, hardware, image reconstruction, parametric imaging, image quality, quality control and safety In vivo spectroscopy: brain metabolism, metabolism of muscle, chemical shift imaging Clinical applications: brain, spinal cord, bone tumours and bone marrow, joint and ligaments, heart, cardiac function, blood flow, mediastinum, liver, breast, genito-urethral system, pediatrics |
| Expected speakers | B. Allgayer, D. Baleriaux, R. Bauer, E. L. Benabid, J. Chambron, A. Desgrez, E. Dubowitz, J. Frühling, A. Grebmeier, W. Kaiser, K. Lehner, A. Luiten, P. Lukas, R. McCreedy, R. Schwarrock, J. Scotti, J. Smolorz, H. Stettmeier, A. Syrota, W. Waters, I. Wolf |
| Participation Fee | Maximum 80 persons CHF 180 in double room; single supplement: CHF 20 This includes registration, accommodation with full board, and social programme (welcoming party, excursion, Hungarian evening) Bus transfer from Sopron to Budapest, Monday, August 24th Price: CHF 45 |
| Payment | See below |
| Local organizer | Dr. B. Andréka Győr-Sopron Megyei Körház H-9002 Győr, Zrínyi u. 13, HUNGARY, Telephone: 36-96-14244 |

Note: Payment for all Pre-Congress Meetings:

| | |
|--------------|--|
| Bank Contact | In case of remittance: Account no. 52905/25/11 for PET vs SPECT 52905/25/12 for KBS in Nuclear Medicine 52905/25/13 for NMR-Principles and Applications |
| | OTP - National Savings Bank Műnch F. u. 6, H-1051 Budapest, HUNGARY |
| | In case of cheque: Kindly send to: OTP - Penta Tours, Nuclear Medicine Congress - 87 Apáczai Cs. J. u. 4, H-1052 Budapest, HUNGARY |

Scientific Programme

2. Plenary Sessions

| | |
|---|--|
| August 25th - 27th, starting at 9:00 a.m. | Presentations relating to the main topics on |
| Instrumentation | by A. Todd Pokropek, UK |
| Radiopharmacology | by A. P. Wolf, USA |
| Endocrinology | by G. Riccabona, Austria |
| Cardiology | by R. Itti, France |
| Neurology | by I. Podreka, Austria |

August, 28th, 11:00 a.m.
Highlights Lecture

3. Oral Presentations

August 25th - 28th
There will be three parallel sessions on:

Basic Research

Physical science
Emission computer tomography (SPECT and PET)
Nuclear magnetic resonance
Instrumentation
Picture processing - artificial intelligence
Personal computers - computer networks
Quality control

Pharmacology

Radiopharmaceutical chemistry
New radiopharmaceuticals
New radioimmunoassays
Quality control in radiopharmacology
Dosimetry, radiation risks

Clinical Appl

Bone/joint disc
Cardiology
Circulation
Endocrinology
Gastroenterology
Haematology
Immunoscintigraphy
Nephrology
Neurology
Paediatrics
Pulmonary disc
Therapy
Thyroid disease

Lecture time will be 8 or 10 minutes, plus 3 or 5 minutes discussion

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Scientific Programme

Scientific Programme

Posters

Each poster will be presented during the period August 25th - 28th in the exhibition area. Posters will be grouped according to the main topics of the programme. There will be round table discussions on selected groups of posters. Details of poster presentation and discussion will be given in the letter of acceptance.

Authors will be informed as to whether their abstracts have been accepted for oral or for poster presentation or not before June 1st, 1987.

All accepted abstracts will be published in Nuclear Medicine

Work in Progress

On the morning of August 28th there will be a session on Work in Progress. Full manuscripts can be submitted to the Congress Secretariat up to August 5th, 1987.

A scientific programme committee will select from among the submitted papers. For selected papers, a lecture time of 8 minutes will be permitted.

Programme for Technicians

Besides the main programme of the Congress, during the period August 25th - 27th technicians will find separate presentations covering numerous aspects of the work of technical staff. The main topics will be:

- Monoclonal antibody imaging
- Gastrointestinal tract function imaging
- MIBG imaging
- Labelled blood cell imaging
- Nuclear cardiology
- Magnetic resonance imaging

Presentations will include plenary sessions (presentations by invited speakers), scientific sessions (presentations by technicians), continuing education, and lectures by technicians who received prizes for their presentations at their national meetings. In order to facilitate contacts between the participants, it is projected to arrange hospital visits and hospitality in private homes. Abstracts for presentations (poster or oral) are to be submitted not later than May 10th, 1987 to:

Prof. J. Mahlstedt
Institute of Nuclear Medicine
University Erlangen Nürnberg
Krankenhausstrasse 12, D 8520 Erlangen, F.R.G.

7. Exhibition

A comprehensive commercial exhibition of equipment, radio pharmaceuticals and scientific books will be held in the centre of the congress area. About 2000 m² is available for this purpose. 1450 m² has already been reserved by registered exhibitors. Would those who still wish to take part in the exhibition please contact HUNGEXPO, the official organizer of the exhibition, at the address mentioned in connection with the congress organization.

Two scientific exhibitions will also be organized:

1. Hevesy Memorial Exhibition
Organized by Prof. L. Kocsár, Budapest, and
Prof. T. Munkner, Copenhagen
2. History of Nuclear Medicine in Europe
Organized by Mallinckrodt Diagnostica, Austria

8. Closing Ceremony

The closing ceremony will be held on Friday, August 28th, at 11:00 a.m. It will include the Highlights Lecture and the announcement of the names of the new Congress President and, we hope, the officers of the new European Association of Nuclear Medicine.

Scientific Programme

Scientific Programme

9. Post-Congress Meetings

Nuclear (Stethoscope-like) Probe Systems (Satellite Symposium)

Date Friday, August 28th - Sunday, August 30th
 Location State Hospital for Cardiology, Balatonfüred (at Lake Balaton)
 Chairmen Prof. M. Horváth and Prof. G. Hoffmann

Programme

1. History of scintillation probe methods for radiocardiographic function analysis
G. Hoffmann
2. Evaluation of left ventricular function using a Cd/Te miniaturized detector
A. Kanemoto, M. Ide
3. Application of Cd/Te detectors in cardiac monitoring
Ch. Schreiber, J. Chambron, A. Gallmann, M. A. Molinari
4. Mobile variable multichannel microcomputer-controlled system with Si-semiconductor detector
L. Nyitrai, L. Zsonda, Zs. Nagy, M. Fodor
5. Comparison of the nuclear stethoscope and gamma camera for measurement of the global left ventricular ejection fraction and contraction dynamics
A. Tarkowska
6. Radiocardiography: its theory and limitations
J. T. Kuikka
7. Clinical versatility of radiocardiography
M. Istvánfy
8. Engymetric technique and its clinical adaptation in cardiology
P. D. Pretschner, B. Andréka
9. The importance of nuclear cardiological methods available for mass screening
V. B. Sergiyenko, N. M. Oganyesyan
10. Is there a demand for a portable nuclear probe system in cardiac rehabilitation when a gamma camera is already used? (A critical point of view)
L. Fridrich

11. Our 25 years of experience with complex radiocardio cyclographic methodology with special interest in the cardio-rehabilitation follow-up
M. Horváth

Papers can still be accepted for presentation. Please contact local organizer (Prof. M. Horváth; address see below)

Participation

Maximum 90 persons
 CHF 160 in double room; single supplement: CHF 40
 This includes registration, accommodation with full board and social programme (reception, excursion by catamaran ferry boat)
 Accommodation for August 30th on request (CHF 30)
 Bus transfer from Budapest to Balatonfüred and from Balatonfüred to Budapest on request, free of charge

Fee

Payment
 In case of remittance:
 Account no. 489-98000 863-430332
 Nuclear Medicine Satellite
 MNB Balaton Tourist Nord
 H-8231 Balatonfüred, HUNGARY

In case of cheque: Kindly send to:
 Balaton Tourist Nord
 Nuclear Medicine Satellite
 H-8231 Balatonfüred, HUNGARY

Local organizer

Prof. M. Horváth
 State Hospital
 H-8231 Balatonfüred, Pf. 13, HUNGARY
 Telephone: 36-86-43080. Telex: 32210

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Scientific Programme

Cyclotron-Aided Nuclear Pulmonology (Satellite Symposium)

Date: Friday, August 28th - Sunday, August 30th
Location: ATOMKI Cyclotron Building, Debrecen (East Hungary)
Chairman: Dr. L. Kertész

Programme: Detailed programme in preparation
Main topics: Diagnostic of lung function (radiopharmacology and measurements)
Pathophysiological aspects as modelled by cyclotron products
Clinical applications

Expected speakers: J. Clark S. Spaventi
Ch. Rhodes A. Mostbeck
C. Giuntini

Papers can still be accepted for presentation. Please, contact the organizer (Dr. L. Kertész; address see below)

Participation: Maximum 100 persons
This includes hotel accommodation for two nights, with full board and a social programme (reception, horse show in the puszta)
A category hotel double room: CHF 115
single supplement: CHF 21
B category hotel double room: CHF 105
single supplement: CHF 12
Bus transfer from Budapest to Debrecen and from Debrecen to Budapest on request. Price: CHF 25

Payment: In case of remittance:
Account no. 52905/25/14
OTP - National Savings Bank, Münnich F. u. 6
H-1051 Budapest, HUNGARY

In case of cheque: kindly send to:
OTP - Penta Tours
Nuclear Medicine Congress - 87, Apáczai Cs. J. u. 4
H-1052 Budapest, HUNGARY

Organizer: Dr. L. Kertész
Korányi National Institute of Pulmonology
H-1529 Budapest, Pf. 124, HUNGARY
Telephone: 36-1-767-511/Ext. 261. Telex: 226995 oktbc

Der Nuklearmediziner

Organ of the „Berufsverband Deutscher Nuklearmediziner“

Editor:
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Scientific Programme

Astatine Workshop

- Date** Monday, August 31st – Thursday, September 1st
Location Central Research Institute for Physics, Budapest
Organizers Dr. K. Berei and Dr. L. Vasáros
- Programme** Detailed programme in preparation
- Main topics** Chemical forms of astatine and their behaviour in different systems
Methods of synthesis of astatine compounds
Labelling of biomolecules with ^{211}At
Application of ^{211}At in nuclear medicine
 ^{211}At dosimetry in medicine
- Papers can still be accepted for presentation.
Please, contact Dr. K. Berei, KFKI, H-1525 Budapest, Pf. 49.
HUNGARY
- Participation** Maximum 50 persons
- Fee** Registration free of charge. Accommodation is to be arranged by participants

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in die Schweiz und
die Schweiz in die Welt.*



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to Switzerland and
Switzerland to the world*

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arrangements please contact

The nearest **SWISSAIR**
office or Travel Agency

General Information

Important Dates

Deadline for abstracts for Technicians Programme May 10th
Information on acceptance of abstract June 1st
Deadline for registration June 20th
Manuscripts for "Work in progress" August 5th

Registration and Fees

Enclosed you will find the registration form. Please complete it carefully as soon as possible and return it to

Ms. D. Kanizsai
OTP-Penta Tours Kft.
H-1453 Budapest 92, POB 34, HUNGARY

The deadline for registration will be June 20th. In the event of registration after this date, the fees will be increased significantly.

The Congress is a joint meeting between the two European Societies. Special rates are available for members of these Societies as follows:

Members of the Society of Nuclear Medicine - Europe (SNME) and of the European Nuclear Medicine Society (ENMS)

Members will have free admission to the scientific presentations and the exhibition, excluding social events, if they have paid their annual fees by June 20th and present their 1987 membership card at the registration desk or send in a copy with the registration.

The annual fee for SNME members is DM 120, payable to
Account no. 5835855
Commerzbank Duisburg, BLZ 35040038, F.R.G.

The annual fee for ENMS members is DM 120, payable to

Account no. 483281999
Amsterdam-Rotterdam Bank in Leiden, The Netherlands

Members of the ENMS who will attend the Congress from countries in which there are restrictions concerning the transfer of money to the accounts of the Society must pay their fees into a special account of their national society on behalf of the ENMS. They must send a receipt for payment of the equivalent of DM 120 from their bank together with their registration sheet.

General Information

Non-Members

The registration fee for non-members will be CHF 210 by June 20th, 1987, and CHF 300 after June 20th, 1987.

The above rates apply to all physicians and all scientists, including radiopharmacists, physicists, engineers and chemists.
A day-registration rate of CHF 100 per day is available for stated days, but obtainable on site at the Congress only.

Bank Contact

In case of remittance:
Account no. 52905/25/1
OTP - National Savings Bank
Műnich F. u. 6.
H-1051 Budapest, HUNGARY

In case of cheque: Kindly send to:
OTP - Penta Tours
Nuclear Medicine Congress - 87
Apáczai Cs. J. u. 4.
H-1052 Budapest, HUNGARY

Technicians - Members of SNME

Technicians who are extraordinary members of the SNME can attend the Special Programme for technicians and the Congress free of charge if they have paid their annual fees by June 20th, and present their 1987 membership card at the registration desk or send in a copy with the registration.

Technicians - Non Members

Lower participation rates are applicable for technicians. On registration, technicians must present a certificate from their employer. The registration fee for technicians participating in the Special Programme is CHF 50, while that for those participating in the Congress is CHF 50. For participation in both the Special Programme and the Congress, the fee is CHF 100. The fee for day registration for the Congress is CHF 20 per day. Day tickets for technicians must also register by June 20th. After this date the fees will be doubled (CHF 100 or 200, respectively).

General Information

Weather

In Hungary the weather in August is generally pleasant and the maximum temperature ranges from 24 to 28 °C (75 to 82 °F). Light clothing is advisable, but the evenings may be cool, a jacket or a raincoat may be useful.

Visas

Visas are granted by Hungarian Embassies or can be obtained at Ferihegy Airport and highway border crossings (two passport photos are required). Visas cannot be obtained at the railway border stations. Participants from Austria, Bulgaria, Cuba, Czechoslovakia, Finland, the GDR, Yugoslavia, Malta, Mongolia, Korea, Poland, Romania, Sweden, the USSR and Vietnam do not need a visa.

Exchange of currency

Exchange facilities are offered to participants at the airport hotels, in banks and at the Congress Office. Foreign currency can be brought into Hungary without restriction. Hungarian currency up to a total amount of 100 Forints can be taken in and out of the country. Before visitors leave Hungary they may reexchange their remaining Forints in the Hungarian National Bank, or at the Hungarian border, but only up to a maximum of 50% of the exchanged sum, or/and to a maximum of only US\$ 100.

Rent-a-car

This service is at your disposal at Ferihegy Airport and at all

Local transportation and parking

The congress badge of registered Congress participants is valid from August 24th to August 28th, 1987. It entitles participants an unlimited number of journeys on buses, trams, trolley bus, metro and the suburban railway (HEV) within the limits of Budapest free of charge. There is a free parking lot for participants at the Congress.

General Information

Exhibitors

All persons entering the Exhibition Hall must be either registered for the Congress or registered for the Exhibition. Each exhibitor will receive three free full registrations for identified members of their stand and one free exhibition badge for identified members for every 10 sq. metres ordered over 15 sq. metres. Thus, a 35 sq. metre stand will have 3 free registrations and 2 free exhibition badges. For any other commercial members or visitors to the Exhibition, an exhibition badge may be purchased at CHF 35 before June 20th, or CHF 50 after June 20th, 1987, with the registration form. Visitors to the Exhibition only may purchase day badges for stated days at CHF 30 per day at the Congress registration desk.

Hotel Accommodation

You can reserve your hotel accommodation on the registration form. Please fill in the form with the utmost accuracy. After the official deadline, registrations will still be possible. However, in cases of last minute registrations we cannot guarantee hotel rooms in all categories.

Accommodation is available in the following categories:

(all room rates are per night, per room, including continental breakfast):

| Hotel Category | Single room with bath | Double room with bath |
|----------------|-----------------------|-----------------------|
| De Luxe (****) | CHF 170 - 205 | CHF 210 - 260 |
| A (****) | CHF 110 - 130 | CHF 135 - 170 |
| B (***) | CHF 70 - 110 | CHF 100 - 135 |
| C (**) | CHF 50 - 60 | CHF 50 - 75 |

Students' Hostel* rooms with 3 or 4 beds CHF 40 - 50

* With common shower, no breakfast

Expo Autocamping Budapest (Intern. Fair Centre of HUNGEXPO)

At the Congress site

| | | |
|------------------|-------------------|----------|
| Prices per night | per car & caravan | CHF 2.50 |
| | per person | CHF 2.50 |
| | per child | CHF 1.50 |
| | for electricity | CHF 1.50 |

Open until August 31st. Room is available for only 300 caravans.

Note: Hotel reservation can be accepted only upon receipt of a hotel deposit as indicated on the registration form.

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Oak Ridge
 Associated Universities
 Post Office Box 117
 Oak Ridge, Tennessee 37831-0117

Executive
 Office

June 30, 1987

Mr. William D. Adams, Director
 Research and Waste Management Division
 Department of Energy
 Oak Ridge, Tennessee 37831

Subject: REQUEST FOR APPROVAL OF FOREIGN TRAVEL AND
 NOTIFICATION OF PROPOSED TRAVEL TO SENSITIVE COUNTRIES
 J. E. CROOK - BUDAPEST, HUNGARY

Dear Mr. Adams:

*#2,325 per C. Baker, ORAU
 m.w.*

The enclosed DOE Forms 1512.1 and 1512.2 describe the subject travel. Approximately \$2,205 would be charged to DOE Budget Activity HA 02 07 01 0.

Copies of pertinent correspondence and workshop announcements are attached for your information.

A trip report covering Dr. Crook's previous foreign travel to Argentina was transmitted to your office by our letter dated May 21, 1987.

Sincerely yours,

William E. Felling
 William E. Felling
 Executive Director

BAKER

Enclosures

*Dr. Crook does not currently hold
 nor has he held within the past five
 years a DOE access authorization.
 Therefore, 1512.2 is not required. m.w.*

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~~W-3784~~