

1335

OAK RIDGE NATIONAL LABORATORY

OPERATED BY
UNION CARBIDE CORPORATION
NUCLEAR DIVISION

718410



POST OFFICE BOX X
OAK RIDGE, TENNESSEE 37830
November 28, 1973

Mr. John H. Kane
Special Assistant for Conferences
Office of Information Services
U. S. Atomic Energy Commission
Washington, D.C. 20545

Dear Mr. Kane:

Subject: IAEA Symposium on Nuclear Medicine, July 15-19, 1974,
Hyatt Regency Hotel, Knoxville, Tennessee

It was a pleasure to meet you recently and to learn firsthand some of the requirements that the IAEA have for their symposiums. I will attempt to answer these as follows:

1. Premises

- (a) Meeting Room (500 persons) - Georgia, Kentucky and Mississippi Rooms, set up classroom style, 500 seats, wide middle aisle, etc., available from Friday noon on.
- (b) Registration desk, coat room and lobby - available from Sunday on.
- (c) Press conferences - Board Room, Sunday or Monday on.
- (d) Briefing Room (15 persons) - Alvin York Room, available from Friday on.
- (e) Reproduction and storage of documents - James K. Polk Room, available from Thursday on.
- (f) Office for Administrative Secretariat - Andrew Jackson Room, available from Thursday on.
- (g) Office for Scientific Secretariat - Alvin York Room, available from Friday on.
- (h) Office for Editor/Records Officer - Andrew Jackson Room, available from Thursday on.

REPOSITORY

COLLECTION

BOX NO.

FOLDER

Oak Ridge Operations
Records Holding Area
Doc. 1944-94
A-60-6 285 Bldg. 2714-H
Information & Publications
Meetings 4-12

HP 4-12
(meetings)

1127924

1. Premises (cont'd)

- (i) Office for Press Officer - Board Room, available from Sunday on.

2. Services

- (a) Travel and general information - Information Booth, main lobby. The Delta Air Lines will furnish one fulltime person and ORNL will furnish any additional assistance required.
- (b)
 - 1) Breakfast, luncheon and dinner - delegates on own. Hotel will set up buffets, etc., to enable delegates to eat and return to meetings on time.
 - 2) Currency exchange - still unresolved as to availability.
 - 3) Postal services - hotel will furnish.
- (c) Medical and first-aid requirements - hotel will handle (there are a number of fine hospitals, etc., close to hotel).
- (d) Security -
 - 1) Hotel will lock up entire area.
 - 2) ORNL will secure one lowkey, plain clothes, experienced, mature man from 8:00 a.m. - 6:00 p.m. daily for checking badges, etc.

3. Facilities

- (a) Individual mail boxes to accommodate 70 papers for preprints (500 copies for use of delegates). ORNL will handle including personnel.
- (b) Telephone system - hotel will provide house phones in each office - Administrative Secretariat, Scientific Secretariat, Press Officer, and registration desk. In addition, the hotel will be the official phone number with all incoming calls coming thru their switchboard. There are three pay phones at registration desk also.
- (c) Mr. H. Conway, President, Round-Hill - IVC, Inc., 581 W. Putnam Avenue, Greenwich, Connecticut 06830, will provide up to one complete wireless SI system with 4 soundproof booths to handle four language channels, 500 wireless, multi-channel receivers and earphones, 8 microphones, as well as taping facilities for the English channel and two technicians.

4. Equipment

- (a) Three typewriters - Knoxville Chamber of Commerce and ORNL will furnish, including badge type size.
- (b) One multilith machine - Knoxville Chamber of Commerce
- (c) One Xerox machine - hotel or ORNL will furnish.
- (d) One large stapler - ORNL will furnish.
- (e) Slide projectors (5 x 5; 8.5 x 8.5; 8.5 x 10; 9 x 12;) all in centimeters - ORNL will furnish.
- (f) 16 mm film projector - ORNL will furnish.
- (g) One epidiascope (maximum 15 cm x 15 cm) - ORNL will furnish.
- (h) One screen - ORNL will furnish 9' x 9' or hotel will furnish larger one.
- (i) Flashlight pointer and lighted tip pointer - ORNL will furnish.
- (j) Large lighted blackboard in meeting room - ORNL will furnish.
- (k) Blackboard near registration desk - ORNL or hotel will furnish.
- (l) Decorations:
 - 1) Flags
 - (a) UN flag will be provided by USAEC. Please let me know dimensions.
 - (b) US flag can be provided by hotel or locally (will need to know dimensions, etc.).
 - 2) Signs - ORNL will furnish signs -
 - (a) Meeting title, place, and dates for front of room.
 - (b) Meeting title for registration with arrows, etc. in hotel.
 - (c) Meeting title at airport.
 - (d) Any other needed signs can be handled by ORNL.

5. Personnel

- (a) Conference clerk to assist records officer - ORNL will provide.
- (b) Two clerks for meeting room and documents distribution - Knoxville Chamber of Commerce will provide.
- (c) Two qualified secretaries (for registration and English typing)- ORNL will provide.
- (d) One document reproduction clerk - ORNL will provide or Knoxville Chamber of Commerce.
- (e) Two men in Mail Room - ORNL will provide.

6. Accommodations - Blocked 200 rooms with anticipated arrival on Saturday; 300 rooms with anticipated arrival Sunday thru Thursday; and more available if required at Hyatt Regency hotel.

General Comments:

- 1) Mr. N. T. Bray, Laboratory Records Department Superintendent, ORNL, Post Office Box X, Oak Ridge, Tennessee 37830, will be responsible for handling the receipt of all documents, transporting them to Hyatt Regency and setting up of Mail Room and providing necessary personnel to man the facility. He will provide optional plans for mail boxes and set up.
- 2) Interpreters will be furnished by UN or IAEA. We will have no responsibility for this requirement.
- 3) I would prefer the meeting to be in Caroline, Georgia and Kentucky rooms and reception in Mississippi room because (a) there is a large screen on wall already available and (b) the master controls on lights, etc., are on the wall in the Caroline room. However, if access from John Sevier lobby is that much more desirable, we can go with the original thinking.
- 4) The brochure, to include general information about area, accommodations, hotels, time and length of meeting, break in schedule (Wednesday p.m.), information on tours, etc. - 500 copies should be sent to you, printed by February 1974 and should be handled by ORNL. You will send sample brochures to me as soon as possible.

General Comments (cont'd)

- 5) The Knoxville Chamber of Commerce will provide 500 brochures to be selected by you. They will also provide two girls as runners all week and one transportation officer Saturday and Sunday at the Knoxville airport. We can also get typewriters, if needed and use of their multilith machine. ORNL or IAEA will furnish multilith mats.
- 6) Please let me know size (dimensions) of UN flag so we can get comparable US flag.
- 7) We will use John Sevier lobby for mail room. The hotel will lock doors to garage, ballroom, service hall on each side of ballroom, and doors to registration area upon closing of meeting each day. We will hire a lowkey, plain clothes, experienced, mature man to assist as a security guard. He will primarily be responsible for checking all delegates' badges at entrance to John Sevier lobby; however, he will be available once the mail boxes are set up and can be identified to provide security on them.
- 8) There will be a tour arranger in the information booth in the hotel lobby to enable delegates to sign up for commercial tours to Great Smoky Mountains, Gatlinburg, Tennessee or maybe TVA facilities (free?), or maybe individual visits to Oak Ridge facilities on the free Wednesday afternoon in schedule.
- 9) The IAEA will furnish names, etc., for the mail boxes.
- 10) The hotel will provide 500 reservation cards with the name of the meeting, dates, and rates.
- 11) The room rates for the conference are \$18/room, single occupancy, and \$24/room double occupancy, for all attendees, government or not.
- 12) There will be coffee for five morning breaks and enough coffee and cokes for the afternoon breaks to accommodate 500 people at each break. There will be no charge to the conference for this.
- 13) John T. Crockett, ORAU, will solicit contributions, etc. to see if a reception and banquet can be provided.
- 14) You will arrange for the Monday night cocktail reception, to be hosted by IAEA. Tentatively, this is planned for the poolside. Mr. Tom Kenney indicated \$6.00-\$7.00/person for hors d'oeuvres and drinks should be budgeted.

November 28, 1973

General Comments: (cont'd)

- 15) A preliminary budget is attached. This budget assumes funds will be provided ORNL via the usual financial plan procedures or authority is provided to transfer the costs to AEC Headquarters. It also assumes that salaries of ORNL, AEC, ORAU employees, except ORNL hourly visual aid operators, will be absorbed by AEC, ORNL and ORAU program funds. All travel, lodging and per diem, and other out-of-pocket expenses for these employees will be charged to the symposium budget.

Suggested Local Conference ArrangementsLocal Scientific Committee:

Scientific Program Chairman	Dr. Gould A. Andrews, ORAU
Special Assistant	John T. Crockett, ORAU

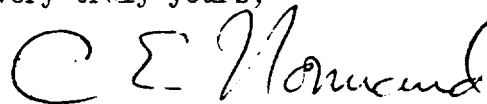
Local Conference Committee:

Chairman	C. E. Normand, ORNL
Chief Administrative Officer	Bonnie Reesor, ORNL
Mail and Document Officer	N. T. Bray, ORNL
Press Officers	H. I. Cobert, UCC-ND D. A. Sundberg, UCC-ND
AEC-ORO Liaison	J. Wayne Range, AEC-ORO J. E. Rounsaville, AEC-ORO

- 16) Do you have any pictures, etc. of meeting room setups? If so, please let me have one.

I am personally looking forward to working with you on this extremely important conference and to its success.

Very truly yours,



Charles E. Normand
Conference Coordinator

CEN:wm

cc: (see attached distribution list)

1127929

IAEA SYMPOSIUM ON NUCLEAR MEDICINE
Hyatt Regency Hotel, Knoxville, Tennessee
July 15-17, 1974

BUDGET

Round Hill (4 languages; 500 head sets)	\$8,045
Mail Boxes	1,200
Moving Van	125
Visual Equipment & Operators - ORNL	1,500
Copying Services	100
Telephone	200
Printing	500
Security Guard	500
Personnel (no salary, but travel costs, etc.)	1,500
Contingencies	<u>3,500</u>
Total	\$17,170

Distribution: G. A. Andrews, ORAU
N. T. Bray, ORNL
F. R. Bruce, ORNL
H. I. Cobert, UCC-ND
H. Conway, Round Hill, Inc.
F. L. Culler, ORNL
J. T. Crockett, ORAU
Alice Dixon, Knoxville Chamber of Commerce
W. E. Foster, ORNL
G. Graves, Hyatt Regency Hotel
T. Kenney, Hyatt Regency Hotel
J. A. Lenhard, AEC-ORO
H. E. McDuffie, ORNL
W. R. Ragland, ORNL
✓ J. W. Range, AEC-ORO
B. S. Reesor, ORNL
J. E. Rounsaville, AEC-ORO
D. A. Sundberg, UCC-ND

1127931

INTERNATIONAL ATOMIC ENERGY AGENCY

Symposium on Dynamic Studies with Radioisotopes
in Clinical Medicine and Research

Knoxville, Tennessee, USA

15 - 19 July 1974

INFORMATION SHEET

1. Introduction

This Symposium will be a sequel to the symposium on the same subject held by the International Atomic Energy Agency in Rotterdam in 1970. It will be concerned with all those applications of radiomucclides in clinical medicine and research that involve investigation of the temporal patterns of uptake, metabolism, clearance or excretion of administered radioactive materials. Such applications include studies of organ function, regional blood flow, gastrointestinal absorption and metabolism of various substances, and red cell production and destruction.

In the several years since the previous symposium this field has continued to expand. New or improved techniques have been developed, notably through the wider use of the gamma camera in dynamic studies, the greater availability of cyclotron-produced radiomucclides, and the continuing extension of the list of available radiopharmaceuticals. Applications of computers in the interpretation of data have become even more penetrating as a result of the greater capacity and accessibility of large computers, the reduced cost and therefore greater availability of small dedicated computers, the sharing of computer programs and the widespread acquisition of experience in such applications. As a result, many existing procedures have been modified or improved and new ones developed.

The Symposium will provide opportunities for the exchange of information on these advances, and for a comparison of the potentialities of the newer and older procedures. A careful selection of the papers will be exercised, and ample time will be allowed for presentation and discussion of all those selected.

2. List of topics

The programme of the Symposium will embrace all the applications of radiomucclides in clinical medicine and research specified above but will give emphasis to new instruments, techniques, and methods of data analysis. Studies based on scintigraphic techniques will be excluded except insofar as they are concerned with dynamic situations. It is hoped that the programme will include the following topics:

- a) General techniques in dynamic studies
 - (i) Systems for radioactivity measurement and their use
 - (ii) Radioactive preparations and their use
 - (iii) Methods of data analysis : models, computation
- b) Studies of the function of organs and systems of the body : thyroid, heart, lungs, kidneys, liver, spleen, skeleton, circulatory system and regional blood flow, gastrointestinal system, tumours
- c) Studies of the metabolism of substances in the body : minerals, proteins, vitamins, radiopharmaceuticals

3. Participation

The nomination of a participant will be accepted only if it is presented by the Government of a Member State of the International Atomic Energy Agency or by an international organization invited to participate.

Each participant should complete a Participation Form (see attached Form "A") and send it to the competent official authority (see section 12 below) for transmission to the Agency.

It is recommended that the Participation Form be submitted as soon as possible to the official authority. Prospective participants, whose nominations have been transmitted to the Agency, will be notified directly about two to three months before the meeting.

4. Visas

Nominated participants who require a visa to enter the United States of America should submit the necessary application to the nearest diplomatic or consular representative of the United States of America as soon as possible, and in no case later than 31 May 1974.

5. Expenditures

Generally, the Agency does not pay the travel or other expenses of participants. However, a small fund of money is made available to support attendance at the symposium by selected scientists from developing countries. Normally, not more than five grants will be awarded. Only one grant will go to any one country.

If Governments wish to apply for a travel grant on behalf of one of their scientists, they should address specific requests to the Director General of the International Atomic Energy Agency to this effect. These applications should

- (a) be submitted by 15 March 1974 (applications received after this date will not be considered),
- (b) be supported by detailed information on the scientific qualifications of the candidate, and
- (c) indicate what benefits the Government expects to obtain from his or her attendance at the meeting.

The grants will be sufficient to cover living expenses for the duration of the symposium and a portion of the travel costs. Grants covering full travel costs cannot be awarded.

The costs for the organization of the meeting are borne by the Agency and the host government. No registration fee or other payments are requested from participants.

6. Papers

The submission of a paper implies that the author intends to participate in the meeting if the paper is accepted.

All papers - apart from invited review papers - must present original work; they should not have been published elsewhere.

A completed Form for Submission of a Paper (see attached Form "B"), must be sent to the competent official authority for transmission to the Agency in time to reach it by 8 February 1974 (see section 12 below), together with six copies of an extended summary of a maximum of 1200 words (i.e. 3 A4 sides of close-spaced typing or the equivalent, including any tables or diagrams and a few pertinent references). This summary should give detailed information on the contents of the proposed paper, in order to enable the paper selection committee to give it proper evaluation. The summary will not be published.

Authors will be informed whether their papers have been accepted, in which case one of the following procedures will have to be adhered to :

- (a) Four copies of the complete paper, preceded by an abstract of 250 words maximum, should be sent direct to the Agency in time to reach it by 3 May 1974 so that preprints may be prepared in advance of the meeting (see section 8 below);
- (b) In case the author prefers to make his own arrangements for preprints (see paragraphs 2.7b and 2.8 of the Instructions for Authors), he should supply :
 - (i) four copies of the paper, preceded by an abstract of 250 words maximum, to be sent direct to the Agency before 14 June 1974, as these are required by the Editor of the proceedings to be published; and

- (ii) 500 preprints for general distribution at the meeting, to be sent to a mailing address which will be communicated later, to arrive at least one week before the symposium begins. Or, alternatively, authors can themselves bring the necessary number of preprints to the symposium.

Authors are requested to adhere strictly to the deadlines set above.

Please note that the Participation Form (attached Form "A"), must also be completed by authors.

7. Working languages

Working languages of the meeting will be English, French, Russian and Spanish. All communications, summaries and papers must be sent to the Agency in one of these languages.

Normally, simultaneous interpretation will be provided between all the working languages; however, one or more may be omitted if at least three months before the meeting it has not been requested. (See attached Form "A").

8. Distribution of documents

A preliminary programme of the symposium will be sent to the participants before the meeting.

The final programme, together with the preprints containing the full text of papers in their language of submission, will be available upon registration in Knoxville.

9. Registration, Accommodation

Detailed information about registration and accommodation will be sent direct to all nominated participants well in advance of the meeting.

10. Proceedings

The proceedings of the meeting are planned to be published within six months after the meeting. They will include all the papers presented orally, printed in full in the language of submission, together with abstracts in the original language and in English, and a record of the discussions in English only.

11. Secretariat

The Scientific Secretaries of the symposium are Dr. R.A. Dudley and Dr. E.H. Belcher, Medical Applications Section, Division of

Life Sciences, International Atomic Energy Agency, Kärntner Ring 11,
P.O. Box 590, A-1011 Vienna, Austria.

The Administrative Secretary of the symposium is Mr. Robert Najar,
Conference Service Section, Division of External Relations, International
Atomic Energy Agency, Kärntner Ring 11, P.O. Box 590, A-1011 Vienna,
Austria.

12. Channels of communication

The Participation Form and the Form for Submission of a Paper,
together with the six copies of each summary, should be sent to the
competent official authority (National Atomic Energy Commission,
Ministry of Foreign Affairs) for subsequent transmission to the
Director General of the International Atomic Energy Agency.

The full text of each paper, as well as correspondence on
scientific matters, should be sent direct to the Scientific Secretaries
of the meeting.

Correspondence on administrative matters should be sent direct
to the Conference Service Section.

INSTRUCTIONS FOR AUTHORS

A

1. GENERAL

The procedure that must be followed by any person wishing to take part in a meeting, the correct channels of correspondence and other relevant matters are described in the Information Sheet issued for the meeting.

2. SUBMISSION OF EXTENDED SUMMARIES AND PAPERS

2.1. Working languages

All communications, extended summaries, abstracts and papers must be sent in one of the working languages - English, French, Russian or Spanish. If an extended summary or paper has been prepared by translation from a language other than these, a copy of the original would also be helpful.

2.2. Procedure for submission

Authors who wish to present a paper should send, through the official channels indicated in the Information Sheet: a) a Participation Form (Form A appended), b) a Form for Submission of a Paper (Form B appended), and c) six copies of an extended summary.

2.3. Evaluation

The Agency will decide whether a paper is to be included in the programme of the meeting, and this decision will be based on the contents of the extended summary. The Agency's decisions will be communicated to the authors well before the date for the submission of papers.

2.4. Length and form of extended summaries

The extended summary must describe the work to be reported in the paper and be a maximum of 1200 words in length (that is, three A4 sides of close-spaced typing, or the equivalent including any tables or diagrams and a few pertinent references). These extended summaries will not be published in the Proceedings.

2.5. Length of papers and abstracts

The paper must not exceed the length specified in the Letter of Acceptance of a Paper, and must be preceded by an abstract of 250 words maximum.

2.6. Deadlines

The deadlines for receipt of extended summaries and the papers with their abstracts as given in the Information Sheet must be observed, and authors must make allowance for the time needed to transmit material through official channels.

2.7. Preparation of preprints

In order that the full texts of papers in the language of submission may be distributed to participants at the beginning of the meeting, authors are requested to adhere to one of the following two procedures:

- (a) Preparation of the preprints by the Secretariat
 - to send four copies of the complete paper and its abstract (including the master copy) to the Secretariat in Vienna before the deadline indicated in the Information Sheet.
- (b) Preparation of the preprints by the authors themselves
 - (This procedure gives the authors about four weeks more for the preparation of their paper; the printing of the preprints is however at the authors' own cost.)
 - to send to the Secretariat in Vienna four copies of the complete paper and its abstract for the use of the scientific secretary,
 - the interpreters and the editor of the Proceedings, to arrive four weeks before the beginning of the meeting;
 - to send or bring to the Secretariat at the place of the meeting the number of preprints required for distribution;

- to ensure that the editor receives the master copy of the manuscript, if one exists, before or during the meeting; the editor can then, if the appearance and presentation of the manuscript is of sufficiently high quality, photograph it unchanged for direct inclusion in the proceedings (see 3.1.1. below).

2.8. Despatch of manuscripts and documents

2.8.1. Wrapping

Care should be taken that manuscripts are not bent, torn or otherwise damaged in transit. Figures, diagrams, etc. must be kept flat and protected from damage by laying them between cardboard or similar material.

2.8.2. Transportation

Authors sending packages of preprints for distribution among the participants are advised (a) to send them air freight at least two weeks before the meeting starts or (b) to bring the packages as personal luggage direct to the meeting. The costs of transportation of the preprints are to be borne by the author.

In no case should the documents be sent by surface mail.

3. EDITORIAL REQUIREMENTS

Authors should remember that their papers will be read by scientists and engineers in many countries. Scientific jargon common in one country may not be readily understood in another; if it must be used to obtain precision, it should be adequately defined and explained. When trade names are used for chemical compounds, the chemical compositions should also be given.

3.1. Suitability for reproduction

As stated in section 2.7, papers will be preprinted before the meeting either by the author or by the Agency. In compiling the final proceedings, the Agency will handle the manuscripts in one of the following two ways.

3.1.1. Direct photocopying

Authors who have a complete knowledge of the language in which the paper is submitted, or can obtain the assistance of a language editor, should have their manuscripts typed single-spaced (i.e. as in these Instructions) on an electric typewriter using a black carbon plastic ribbon. If also the other editorial requirements as described below are followed, this will enable the Agency to photograph the manuscripts for direct inclusion in the Proceedings.

3.1.2. Complete retyping

All other authors should leave a wide space between the lines for editorial corrections to be inserted by the Agency editor.

3.2. Layout and format

Text and tables must be set on good quality white paper, on one side of the sheet only. The text must not exceed 16 cm in width and 24 cm in height. The average number of words per line should be 11 to 13 for English, French and Spanish, and 9 to 11 for Russian. This gives an indication of the type face and size required; the preferred type face is IBM Executive Documentary.

A specimen Format Sheet is appended to these Instructions. All text, tables and figures (including headings and captions) must be contained within the area shown. In addition, space must be left at the top of the first page of the paper (the shaded area on the Format Sheet) for the masthead to be affixed.

3.3. Other editorial requirements

3.3.1. Size of lettering

Lettering in tables and text must be of reasonable form to ensure readability after the 25% reduction in size that occurs in the direct reproduction of papers for the Proceedings.

Lettering in figures should not be smaller than 1.5 mm high when printed in the Proceedings. This means that figures for

1127937

reduction to one third or one half of their original size should have lettering approximately 4.5 mm or 3 mm high, respectively. The normal maximum width for a figure when printed is 12 cm. A figure that can be greatly reduced in size without losing its value should be prepared for heavy reduction in order to save space and costs; the original should therefore have appropriately large lettering.

3.3.2. Paper title, name and affiliation of author

The name of the author(s), and the name and location of the institute where the work was done, should be indicated under the paper title on the first page.

3.3.3. Headings

The style and order of headings used in these Instructions are recommended, but the numbering is only necessary if there is cross-referencing (see sub-section 3.3.9).

First lines of paragraphs, and short-listed items within a paragraph, should be indented; all other text should be written from the margin.

3.3.4. Symbols and abbreviations

The internationally accepted symbols of physics, chemistry and mathematics should be used. As units of measurement, the SI System or a subsystem of this are preferred (see the recommendations of the International Organization for Standardization in International Standard ISO 1000, and the various parts of Recommendation R 31). The last page of these Instructions gives examples of the abbreviations and symbols which may, singly or in combination, be used without explanation. Other abbreviations should be explained in full the first time they appear.

3.3.5. Mathematics

Mathematics must be clearly written, by hand if necessary, ensuring distinction between symbols liable to cause confusion (ones, eils, primes; capital and lower case letters - S, s; V, v; x, X, χ ; P, p, ρ). As no bold face lettering can be set, $\vec{A}$, $\vec{P}$, vectors, etc. should be indicated using arrows, etc., e.g. $\vec{A}$, $\vec{P}$, (see also sub-section 3.3.1 above). No italics are available for individual letters.

3.3.6. Bibliographical references

Bibliographical references should be identified in the article by Arabic numerals in square brackets and be listed at the end of the text in the order in which they are mentioned. Typical references are shown on the Format Sheet to indicate the style required. The standard for journal abbreviations is that adopted by the International Nuclear Information System (INIS), as set out in report IAEA-INIS-11. (This is based on the UNISIST/ICSU-AB document "International List of Periodical Title Word Abbreviations".) If the abbreviation for a journal is not known, the full title should be given.

3.3.7. Tables

Tables must be typed on separate sheets. They must have a heading and be numbered consecutively with Roman numerals (e.g. TABLE XI) in the order in which they are referred to in the text. Where possible, the presentation of tables should follow the style used in Agency publications.

3.3.8. Figures

Figures (these include all photographs and diagrams) must be on separate sheets. They must have a caption, normally under the figure, and be numbered consecutively with Arabic numerals (e.g. Fig. 2) in the order in which they are mentioned in the text.

A separate list of figure captions must also be provided. (See sub-section 3.3.1 above for size of lettering in figures.)

On the back of each figure should be indicated: name of author(s); paper title (or symbol); figure number.

3.3.8.1. Photographs. The number of photographs must be kept to a strict minimum and a photograph should be submitted only if conveying information not readily given in any other form. High-gloss or good-quality prints are required.

3.3.8.2. Diagrams. Diagrams must be submitted as black line drawings on white paper, on linen paper, or on tracing paper, or as high-quality photographic reproductions of such drawings. The original drawings or tracings are preferred, done by a qualified draughtsman or tracer (but not authors' first rough sketches).

3.3.8.3. Colour. No colour reproductions are possible on preprints. If considered necessary, colour reproduction of figures is possible in Proceedings. Such cases will be considered individually at the request of an author, who must provide high-quality originals for vetting by the Scientific Secretary and the Head of the Editorial and Publications Section before the meeting.

3.3.8.4. Slides. Slides cannot be accepted for reproduction in preprints or the Proceedings.

3.3.9. Footnotes and cross-referencing

Footnotes to the main title should be indicated by an asterisk, dagger, etc.

Footnotes to the text should be numbered consecutively through the text (not page by page); they should be set at the foot of the page on which they are mentioned.

Footnotes to a table should be lettered and set immediately below the table itself.

Cross-referencing in the text must be by section numbering, not by reference to page-numbers.

4. ORAL PRESENTATION AND DISCUSSION

Oral presentation and discussion must be in one of the working languages.

4.1. Speakers

No paper can be presented except by the author or, where this is not possible, by someone thoroughly familiar with the subject and able to reply in detail to questions put to him in subsequent discussions.

4.2. Mode and length of presentation

Speakers should be concise and should avoid turning their presentation into a selective reading from papers that have already been distributed. The Scientific Secretary will inform each author about the permissible length of the presentation.

4.3. Interpreters' copies

To facilitate the task of the interpreters, four copies of the oral presentation should be brought to the meeting.

4.4. Slides

Slides of the following sizes can be shown: 5 cm x 5 cm; 8.5 cm x 8.5 cm; 8.5 cm x 10.5 cm; 9 cm x 12 cm.

5. PUBLICATION

The Secretariat reserves the right not to publish any abstract or paper that does not conform with the above requirements, and to omit figures and make such other editorial changes as may be necessary or desirable for publication.

FORMAT SHEET

Use full area for text, tables and figures inclusive of headings, captions and footnotes. Shaded area left free on first side only.

24 cm	16 cm
	6 cm
First side of abstract and paper. Area to be left free for masthead to be affixed by the Agency	
First side of abstract and paper Paper title, initials and name(s) of Author(s) and institute name and location here	
<u>Specimen references</u> (see sub-section 3.3.6)	
REFERENCES*	
[1] SMITH, F.A., 2nd Int. Conf. Peaceful Uses At. Energy (Proc. Conf. Geneva, 1958) 7, UN, New York (1958) 57.	
[2] GSCHNEIDER, K.A., Jr., WABER, J.T., "Principles of the alloying behaviour of rare-earth metals", Ch.17, The Rare Earths (SPEDDING, F.H., DAANE, A.H., Eds), Wiley, New York (1961).	
[3] GURINSKY, D.H., et al., Finding a container material for the uranium-bismuth system, Nucleonics 12 7 (1954) 40.	
[4] GILROY, H.M., Trans. Amer. Nucl. Soc. 3 1 (1960) 190.	
[5] LEFORT, M., TARRAGO, X., Radiation dosimetry with plastics, Int. J. Appl. Radiat. Isot. 7 (1960) 323.	
[6] HEATH, R.L., Scintillation Spectrometry, Gamma-Ray Spectrum Catalogue, USAEC Rep. IDO-16408 (1957).	
[7] ALLEN, R.A., SMITH, D.B., HISCOOTT, J.E., UKAEA Rep. AERE-R 2938 (1961) 199.	
[8] KADOMTSEV, B.B., Sov. Phys. - JETP 10 (1960) 962.	
* Articles in books in inverted commas; only book, report and proceedings titles should have initial capital letters to each word.	
Symbol order: Vol. No., Issue No., (Publ. year), page No., e.g. 3 1 (1960) 190. (without commas)	

REV: 1973-06-20

1127939

ABBREVIATIONS AND SYMBOLS WHICH MAY BE USED WITHOUT EXPLANATION

Prefixes d (deci) 10^{-1} c (centi) 10^{-2} m (milli) 10^{-3} μ (micro) 10^{-6} n (nano) 10^{-9} p (pico) 10^{-12} f (femto) 10^{-15} a (atto) 10^{-18} da (deka) 10^1 h (hecto) 10^2 k (kilo) 10^3 M (mega) 10^6 G (giga) 10^9 T (tera) 10^{12}		deg(=degC=degK) and degF(=degR) may be used for degrees of temperature difference Pressure [indicate absolute(abs) or gauge(g) as required, e.g. 3 atm(g)] Pa pascal (= N/m ²) lbf/in ² kgf/cm ² bar inHg inch of mercury cmHg centimetre of mercury mmHg } millimetre of torr } mercury atm atmosphere Electricity and magnetism A ampere a.c. alternating current C coulomb Hz cycles per second dB decibel d.c. direct current eV electron volt F farad G gauss H henry J joule MW(e) megawatt (electrical) MW(th) megawatt (thermal) N neper Oe oersted Ω , ohm ohm S siemens (= ohm ⁻¹) T tesla V volt W watt Wb weber Others at. % atomic per cent Btu British thermal unit cal calorie cd candela conc. concentrated concn concentration counts counts (e.g. counts/min) Ci curie ° degree of angle dia., ϕ diameter \$ reactivity dollar (as in 4.2 \$) dis disintegrations (e.g. dis/min) dyn dyne Eq(\$.) equation(\$ [e.g. Eq.(4)] erg erg Fig(\$.) figure(\$, (e.g. Fig. 3) GM Geiger-Müller T _{1/2} , T _{1/2} half-life pH hydrogen-ion concentration index (precedes value, e.g. pH 7)		i.r. infra-red lm lumen lx lux max. maximum MPC maximum permissible concentration min. minimum minute of angle mill 10 ⁻³ US \$ M molar concentration mol mole mol. molecule, molecular n neutron N newton N Nile N normal concentration No. number (e.g. No. 8) ppm parts per million pp10 ⁹ parts per US billion pk, ^ peak % per cent ‰ per mille P poise rad rad rem rem rev/min revolutions per minute R röntgen rms root mean square " second of angle STP standard temp. and pressure (0°C, 1 atm) sr steradian St stokes US \$ United States dollar (as in US \$20) u.v. ultra-violet vol. % volume per cent wt. % weight per cent Mathematics $\approx$ approx. equal to $\otimes$ tensor $\vec{A}$ vector x multiplication sign Mass number of atom To be written at top left of symbol, e.g. ²³⁸ U Examples of complex units Thermal conductivity coefficient: Btu/cm·s·°C, or Btu·cm ⁻¹ ·s ⁻¹ ·°C ⁻¹ (not Btu/cm/s/°C) Neutron flux density: (n/cm ² ·s, or n·cm ⁻² ·s ⁻¹ (not n/cm ² /s) Time integral of neutron flux density: n/cm ² or n·cm ⁻² (not nvt for the unit) Electrical energy: J or kW·h	
Note: μ m (not μ) = micron or micrometre (= 10 ⁻⁶ m)					
Length m metre Å angstrom in. inch mil 10 ⁻³ in. ft foot yd yard mile mile Area acre acre a are ha hectare b barn (= 10 ⁻²⁴ cm ²) Mass and weight kg kilogram t tonne (1000 kg) oz ounce lb pound cwt hundredweight ton ton, specify (long) = 2240 lb, or (short) = 2000 lb on first use Volume l, litre litre cm ³ cubic centimetre (not cc) fl oz fluid ounce pt pint } specify(imp) or qt quart } (US) on first use gal gallon } if confusion is possible Time s second min minute h hour d day a, yr year Temperature °C degree Celsius °K, K (degree) Kelvin °F degree Fahrenheit °R degree Rankine					

INTERNATIONAL ATOMIC ENERGY AGENCY

Symposium on Dynamic Studies with Radioisotopes
in Clinical Medicine and Research

Knoxville, Tennessee, USA

15 - 19 July 1974

To be sent to the competent official authority (Ministry of Foreign
 Affairs or national atomic energy authority) for transmission to the
 International Atomic Energy Agency

PARTICIPATION FORM

Family name:		First name in full and initials of given names:	Mr. Mrs. Miss Dr.
Institution:		Full address:	
Nationality:	Nominating government or international organization:		
Mailing address (if different from address of institution):			
Date of departure from mailing address:			

Indicate below in which of the meeting languages you are able to follow the proceedings of the meeting and in which language(s) you can express yourself:

Language	English	French	Russian	Spanish
Speaking				
Understanding				

Do you intend to present a paper?

YES

NO

INTERNATIONAL ATOMIC ENERGY AGENCY

Symposium on Dynamic Studies with Radioisotopes in Clinical Medicine and Research

Knorrville, Tennessee, USA

15 - 19 July 1974

To be sent to the competent official authority (Ministry of Foreign Affairs or national atomic energy authority) for transmission to the International Atomic Energy Agency

FORM FOR SUBMISSION OF A PAPER

Title of the paper:	
Initials, family name and mailing address of participant who will present the paper:	
Name:	Address:
Initial(s) and family name(s) of the author(s):	Scientific establishment(s) in which the work has been carried out:
1.	
2.	
3.	
4.	
5.	
Will 500 preprints of your paper for distribution to participants be supplied by you? YES NO	
I hereby agree to assign to the International Atomic Energy Agency the right to publish the above-mentioned paper, and certify that no other rights have been granted which could conflict with the right hereby given to the Agency.	
Date:	(signature)
Enclosures: extended summary (8 copies)	

1127942

IAEA Symposium on Dynamic Studies with
Radioisotopes in Clinical Medicine and
Research - Knoxville, Tennessee -
July 15-19, 1974

Summaries

1. "Clinical Tissue Perfusion Measurement Using Imaging Methods with ^{81}Rb - $^{81\text{m}}\text{Kr}$ " by Paul V. Harper, B. Rich, N. Lembares, and K. A. Lathrop, Franklin McLean Memorial Research Institute, Chicago, Illinois
2. "Functional Images of the Lungs" by T. K. Natarajan and Henry N. Wagner, Jr., Johns Hopkins Medical Institutions, Baltimore, Maryland
3. "A Technique for the Simultaneous In Vivo Use of Six Radioisotopically Labeled Compounds" by Wesley G. McTaggart and D. Cardus, Baylor College of Medicine, Houston, Texas
4. "A Computer-Aided Procedure to Study Nonsteady State Kinetics of Electrolytes in Tissues" by George A. Smith and J. G. Llaurado, Marquette University and the Medical College of Wisconsin, Milwaukee, Wisconsin
5. "Xenon Ventilation and Perfusion Studies" by Barbara Y. Howard, University of Virginia, Charlottesville, Virginia
6. "Kinetics of ^{47}Sc Generated by Decay of ^{47}Ca In Vivo" by Barry R. Freed, Memorial Sloan-Kettering Cancer Center, New York, New York
7. " ^{111}In Indium Transferrin Metabolism as a Measurement of Bone Marrow Activity" by Juan J. Touya, Osvaldo E. Anselmi, R. F. Filey, and Leslie R. Bennett, UCLA Laboratory of Nuclear Medicine and Radiation Biology, Los Angeles, California
8. "Coincidence Counting of Radioactive Sodium In Vivo" by Franz K. Bauer, N. Telfer and Q. Merrill, University of Southern California, Los Angeles, California
9. "Saline Kinetics in Sodium Abortion" by Nancy Telfer and C. Ballard, University of Southern California, Los Angeles, California
10. "Analog and Digital Simulation of the Radiocardiogram" by Howard G. Parker, D. C. Van Dyke, F. T. Upham and A. A. Windsor, Donner Laboratory and Lawrence Berkeley Laboratory, Berkeley, California

11. "Evaluation of Central Circulatory Dynamics with the Scintillation Probe" by Peter Steele, et al, Denver V.A. Hospital, University of Colorado Medical Center, Denver, Colorado
12. "Dynamic Studies Using a Hard Wired Data System" by Marvin Rollins, and Douglas Shearer, Luther Medical Center, Cleveland, Ohio
13. "Quantification of Cardiac Valvular Regurgitation" by Dennis L. Kirch, P. O. Steele, C. Metz, and D. W. Brown, U. S. Veterans Administration Hospital and University of Colorado Medical Center, Denver, Colorado
14. "Application of a Multi-imaging System to Dynamic Scintiscanning Using Polaroid Positive-negative Film" by Amiel Rudavsky, Morrisania City Hospital, Bronx, New York
15. "Computer Analysis of Radiocardiograms of Patients with Intracardiac Shunts" by Darko Ivancevic, R. Price, T. Rhea, T. Graham, G. F. Atwood, and A. B. Brill, Vanderbilt University Hospital, Nashville, Tennessee
16. "Multiparametric Evaluation of Renal Transplants with Radionuclides" by Dan G. Pavel, J. L. Quinn, III, B. D. Kahan, J. J. Bergan, and B. R. Westerman, Northwestern University McGaw Medical Center, Chicago, Illinois
17. "Comparative Distribution of Fluorine and Tc-Sn-Etidronate (EHDP) in Paget's Disease of Bone (Osteitis Deformans)" by Bernard Shapiro and I. Stein, Albert Einstein Medical Center, Philadelphia, Pennsylvania
18. "Study of Regional Respiratory Mechanics Using 133-Xenon and a Multidetector System" by Vu-Dinh Mihn, et al, University Hospital of San Diego County, San Diego, California
19. "Radioaerosol Lung Imaging in Early Chronic Lung Disease (Its Major Application in Medicine)" by George V. Taplin, L. Ramanna, D. Tashkin, and Dennis Elam, University of California, Los Angeles, California
20. "Deficiencies and Current Improvement in Lung Imaging with Radioaerosols" by George V. Taplin, L. Ramanna and D. Elam, University of California, Los Angeles, California
21. "Localization of Minute Bronchogenic Tumor Phantoms by Gated Computerized Chest Scintigraphy" by George V. Taplin and Dennis Elam, University of California, Los Angeles, California

22. "Dynamic Studies of Myocardial Blood Flow Using Water Labeled with ^{15}O -Water" by Judith M. Metzger and Michael M. Ter-Pogossian, University of California, Los Angeles, California
23. "Regional Myocardial Perfusion Studies: A Critique of Data Collection and Processing Techniques" by Ernest M. Stokely, R. W. Parkey and F. J. Bonte, University of Texas Health Sciences Center, Dallas, Texas
24. "Data Processing of Cerebral Dynamic Studies in the Differential Diagnosis of Intracranial Disease" by Lynn R. Witherspoon, Randall S. Preissig, J. Wendell Tyson, C. Craig Harris, and Jack K. Goodrich, Duke University Medical Center and Veterans Administration Hospital, Durham, North Carolina
25. "Estimation of Slow Dynamic Function Parameters in Iron Kinetics Studies Using Quantitative External Measurements and Compartmental Modelling Analysis" by Ronald R. Price and A. B. Brill, Vanderbilt University, Nashville, Tennessee
26. "The Dynamics of Non-Specific Tumor Localizing Radiopharmaceuticals Compared in an Animal Model" by Thomas P. Haynie, Tad Konikowski, Monroe F. Jahns, and Howard J. Glenn, University of Texas System Cancer Center, M. D. Anderson Hospital and Tumor Institute, Houston, Texas
27. "Clinical Application of Cerebral Dynamic Perfusion Studies" by Frank H. DeLand, University of Florida and Veterans Administration Hospital, Gainesville, Florida
28. "Radioisotope Imaging of the Great Vessels" by Donald W. Brown and Austin L. Spitzer, Denver Veterans Administration Hospital and the University of Colorado Medical Center respectively, Denver, Colorado
29. "Dose to a Dynamic Bladder for Administered Radionuclides" by John W. Poston and W. S. Snyder, Oak Ridge National Laboratory, Oak Ridge, Tennessee
30. "Metabolic Model for Copper for Use in Internal Dose Estimation" by S. Robert Bernard, Oak Ridge National Laboratory, Oak Ridge, Tennessee
31. "Assessment of Peripheral Vascular Perfusion: at Rest and When Stressed" by Michael E. Siegel, et al, Johns Hopkins Medical Institutions, Baltimore, Maryland
32. "Venous Hemodynamics" by Barry H. Friedman, Michael E. Siegel, Buck A. Rhodes and Henry N. Wagner, Jr., Johns Hopkins Medical Institutions, Baltimore, Maryland

33. "Continuous Registration of the Thyroidal Uptake of ^{99m}Tc and ^{123}I in the First 30 Minutes" by Harold L. Atkins, et al, Brookhaven National Laboratory, Upton, New York
34. "Kinetics of Lactate Turnover and Oxidation in Man" by Gilbert L. Searle, D. Shames, R. R. Cavlieri, J. DeGrazia, and V. Zarcone, Veterans Administration Hospital, San Francisco, California
35. "Estimation of Effective Renal Plasma Flow in Children by Use of a Single Plasma Sample After Injection of Orthoiodohippurate" by Welby N. Tauxe, Wolfgang Hagge and G. B. Stickler, University of Alabama Hospitals, Birmingham, Alabama
36. "Dynamic Renal Studies in the Early Post-Transplant Period" by Eva V. Dubovsky, W. N. Tauxe, A. G. Diethelm, and W. Sterling, University of Alabama Hospitals, Birmingham, Alabama
37. "Dynamic Studies with Multiprogrammed Computer System" by Nathaniel M. Alpert, et al, Massachusetts General Hospital, Boston, Massachusetts
38. "Detection of Renal Artery Stenosis in Hypertensive Patients Using the Scintillation Camera and Small Computer" by David M. Shames, Robert E. L. Farmer, and F. David Rollo, University of California, San Francisco, California
39. "High Resolution Techniques for Time-Dependent Transmembrane Ionic Flux Measurements in Living Tissues" by David F. Juncker, University of Minnesota, Minneapolis, Minnesota
40. "Effect of Low-Potassium Diet on the Retention of Chronically Ingested ^{137}Cs " by J. E. Furchner and G. A. Drake, Los Alamos Scientific Laboratory, Los Alamos, New Mexico
41. " ^{123}I -Indocyanine Green (^{123}I -ICG) as an Agent for the Dynamic Studies of Hepatobiliary System" by A. N. Ansari, et al, Brookhaven National Laboratory, Upton, New York
42. "Radiopharmaceuticals for Function Studies: Present and Future" by J. Kenneth Poggenburg, Oak Ridge National Laboratory, Oak Ridge, Tennessee; and Raymond L. Hayes, Oak Ridge Associated Universities, Oak Ridge, Tennessee
43. "Measurement of Temporal Changes in Whole-Body Radionuclide Distribution with a Profile Scanner" by William D. Gibbs, C. L. Edwards, H. D. Hodges, and R. J. Cloutier, Oak Ridge Associates Universities, Oak Ridge, Tennessee

44. "Dynamic Studies of Thyroid Function Using Parenteral NaI-123" by Homer B. Hupf and J. E. Beaver, Mount Sinai Medical Center, Miami Beach, Florida; and F. S. Ashkar and R. R. Sankey, University of Miami School of Medicine, Miami Beach, Florida
45. "Altered Reticuloendothelial (RE) Function in Hematologic Diseases" by Francis Goswitz, C. Morris, K. Kim and M. Hansard, Oak Ridge Associated Universities, Oak Ridge, Tennessee
46. "Localization of the Level of Left to Right Shunts by Radionuclide Angiocardiology (RAC)" by Salvador Treves, G. McIlmoyle, D. Ahnberg, and G. LaFarge, Children's Hospital Medical Center, Boston, Massachusetts
47. "Shunt Detection by Means of a Gamma Camera and Computer" by Marvin E. Goldberg, William A. Neal, Merle K. Loken, James H. Moller, and Richard A. Ponto, University of Minnesota Hospitals, Minneapolis, Minnesota

IAEA Symposium on Dynamic Studies with Radioisotopes
in Clinical Medicine and Research -
Knoxville, Tennessee - July 15-19, 1974

Observer-Participants

George L. Jackson, M.D.
Section of Nuclear Medicine
Harrisburg Hospital
South Front Street
Harrisburg, Pennsylvania 17101

Jack D. Nestor, M.D.
Associates in Laboratory Medicine
1601 N. Tucson Blvd.
Tucson, Arizona 85716

William F. Eckhardt, Jr., M.D.
New Canaan Medical Group, Inc.
173 East Avenue
New Canaan, Connecticut 06840

Tom K. Kawada, Ph.D.
Los Angeles County
USC Medical Center
1200 North State Street
Los Angeles, California 90033

Mr. Dale W. Fitting
Department of Radiology
University of Tennessee Memorial
Research Center and Hospital
1924 Alcoa Highway
Knoxville, Tennessee 37920

Joseph M. Ryan, M.D.
St. Joseph's Hospital
69 West Exchange Street
St. Paul, Minnesota 55102

William L. Lavendusky, D.O.
Department of Radiology
Oklahoma Osteopathic Hospital
9th Street and Jackson Avenue
Tulsa, Oklahoma 74127

Dr. Zoltan Viragh
Chief of Staff
Veterans Administration Center
Hot Springs, South Dakota 57747

John B. Selby, M.D.
Department of Nuclear Medicine
Veterans Administration Hospital
Lexington, Kentucky 40506

John D. Hopkins, M.D.
Department of Radiology
Meaharry Medical College
1005 18th Avenue, North
Nashville, Tennessee 37208

Alys H. Lipscomb, M.D.
Internal Medicine
Stevenson Clinic
188 South Bellevue, Suite 208
Memphis, Tennessee 38103

C. Barrie Cook, M.D.
The Fairfax Hospital
3300 Gallows Road
Falls Church, Virginia 22046

Robert S. Fadem, M.D.
2765 Second Avenue
San Diego, California 92103

Mr. Edwin C. Chamberlain
Washoe Medical Center
77 Pringle Way
Reno, Nevada 89502

Dr. Arthur L. Kretchmar
University of Tennessee
Memorial Research Center
1924 Alcoa Highway
Knoxville, Tennessee 37920

Dr. Jeanne R. Bonar
Department of Medicine
University of Mississippi Medical
Center
2500 North State Street
Jackson, Mississippi 39216

Lawrence Silver, M.D.
Department of Nuclear Medicine
Queens Hospital Center
82-68 164th Street
Jamaica, New York 11432

Alan Lieberthal, M.D.
Medical Director
Nuclear Medicine, Ltd.
606 West Wisconsin Avenue
Milwaukee, Wisconsin 53203

Cliff Ratliff, Jr., M.D.
Director of Nuclear Medicine
St. Agnes Hospital
8 Westview Mall, Suite 5772
Baltimore, Maryland 21228

Dr. Sarrell Warren
Box 2127
Anniston, Alabama 36201

Arthur P. Klotz, M.D.
University of Kansas
Medical Center
39th and Rainbow Boulevard
Kansas City, Kansas 66103

Dr. A. Bertrand Brill
Division of Nuclear Medicine
Vanderbilt University Medical
Center
Nashville, Tennessee 37232

Frank T. Maher, M.D., Ph.D.
Mayo Clinic
200 First Street, Southwest
Rochester, Minnesota 55901

Irvin Stein, M.D.
Department of Nuclear Medicine
Albert Einstein Medical Center
York and Tabor Roads
Philadelphia, Pennsylvania 19141

Dr. James L. Quinn
Department of Nuclear Medicine
Northwestern University
McGaw Medical Center
Superior Street & Fairbanks Court
Chicago, Illinois 60611

Douglas R. Shearer, Ph.D.
Department of Nuclear Medicine
Lutheran Medical Center
2609 Franklin Boulevard
Cleveland, Ohio 44113

Dr. Josep G. Llaurodo
Marquette University and the
Medical College of Wisconsin
VAC, Wing D-12N
Wood, Wisconsin 53193

Dr. Thomas C. R. Rhea
Department of Pediatric Cardiology
Vanderbilt University Medical Center
Nashville, Tennessee 37232

Dr. Daniel P. Lindstrom
Division of Nuclear Medicine
Vanderbilt University Medical Center
Nashville, Tennessee 37232

Dr. James A. Patton
Division of Nuclear Medicine
Vanderbilt University Medical Center
Nashville, Tennessee 37232

Dr. Jon J. Erickson
Division of Nuclear Medicine
Vanderbilt University Medical Center
Nashville, Tennessee 37232

Dr. Walter S. Snyder
Oak Ridge National Laboratory
P. O. Box X
Oak Ridge, Tennessee 37830

Dr. Maurice Nataro
V. A. Hospital
800 Zorn Avenue
Louisville, Kentucky 40202

Jose' O. Morales, M.D.
Department of Nuclear Medicine
Episcopal Hospital
Front Street & Lehigh Avenue
Philadelphia, Pennsylvania 19125

C. Bland Giddings, M.D.
Nuclear Medicine Associates
500 West 10th Place
Mesa, Arizona 85201

Mr. Joe E. Beaver
Division of Nuclear Medicine
Mount Sinai Medical Center
Cyclotron Facility
4300 Alton Road
Miami Beach, Florida 33140

Yogendra S. Goel, M.D.
Nuclear Medicine Department
Shelby Memorial Hospital
P. O. Box 488
Alabaster, Alabama 35007

Frank L. Iber, M.D.
Chief, GI Division
Veterans Administration Hospital
3900 Loch Raven Boulevard
Baltimore, Maryland 21218

Dr. William P. Stallworth
East Tennessee Baptist Hospital
Blount Avenue
Knoxville, Tennessee 37920

Dr. Bergene Kavin
Division of Oncology and
Radiopharmaceuticals
U.S. Food & Drug Administration
HFD-150
5600 Fishers Lane
Rockville, Maryland 20852

Mr. Raymond L. Hayes
Oak Ridge Associated Universities
P. O. Box 117
Oak Ridge, Tennessee 37830

PROVISIONAL PROGRAMME

INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA-SM-185

SYMPOSIUM ON
DYNAMIC STUDIES WITH RADIOISOTOPES
IN CLINICAL MEDICINE AND RESEARCH

Knoxville, Tennessee, USA

15 - 19 July 1974

1127951

TIMETABLE

Monday, 15 July

09.30	Opening of the Symposium
09.45	Session I Instrumentation and techniques
14.30	Session II Instrumentation and techniques (continued) Hepatic function studies

Tuesday, 16 July

09.00	Session III Gastrointestinal function studies Renal function studies
14.30	Session IV Renal function studies (continued) Thyroid function studies

Wednesday, 17 July

09.00	Session V Miscellaneous dynamic studies
	AFTERNOON FREE

Thursday, 18 July

09.00	Session VI Regional blood flow and related studies
14.30	Session VII Regional blood flow and related studies (continued) Cardiac function studies

Friday, 19 July

09.00	Session VIII Cardiac function studies (continued)
14.30	Session IX Pulmonary function studies
18.00	Closing of the Symposium

MONDAY, 15 JULY 1974

09.30 - Opening of the Symposium

09.45 - Session I - Instrumentation and techniques

IAEA-SM-185/

- | | | | |
|-----|--|---|---|
| 100 | E. Riihimäki | University Central Hospital,
Meilahti Hospital,
Helsinki, Finland | Invited review paper:
Numerical analysis of
data in dynamic function
studies |
| 101 | A.B. Brill | Vanderbilt University
Medical Center,
Nashville, Tennessee, USA | Invited review paper:
Data handling systems
for use in dynamic
function studies |
| 50 | N. Alpert
B. Hoop, Jr.
D.A. Chesler
J. Correll
T. Jones
G.L. Brownell | Massachusetts General
Hospital, Boston,
Massachusetts, USA | Dynamic studies with
multi-programmed computer
system |
| 84 | C. Raynaud
A. Todd-Pokropek
A. Kaspavec
D. Comar
M. Mazière
C. Marazano
C. Kellershohn | Service Hospitalier
Frédéric Joliot,
Commissariat à l'Energie
Atomique, Orsay, France,
and University College
Hospital Medical School,
London, UK | Système de traitement et
de visualisation pour
études cinétiques rapides,
appliqué à l'étude de la
fixation cérébrale des
neuroleptiques chez
l'homme |
| 76 | I. Runczik
C. Černoch
B. Vavrejn
E. Jiříčková
J. Kidery | Postgraduate Medical and
Pharmaceutical Institute
and Institute of Clinical
and Experimental Medicine,
Prague, Czechoslovakia | Differential multi-level
display - a new method for
evaluating dynamic scinti-
camera studies |
| 27 | A.Z. Rudavsky | Morrisania City Hospital,
Bronx, New York, USA | Application of a multi-
imaging system to dynamic
scintiscanning using
Polaroid positive-negative
film |

MONDAY, 15 JULY 1974

14.30 - Session II - Instrumentation and techniques (continued)

Hepatic function studies

IAEA-SM-185/

63	<u>W.D. Gibbs</u> C.L. Edwards H.D. Hodges R.J. Cloutier	Oak Ridge Associated Universities, Oak Ridge, Tennessee, USA	Measurement of temporal changes in whole-body radionuclide distribution with a profile scanner
62	<u>J.K. Poggenburg</u> R.L. Hayes	Oak Ridge National Laboratory and Oak Ridge Associated Universities, Oak Ridge, Tennessee, USA	Radiopharmaceuticals for function studies: present and future
70	<u>P.P. van Rijk</u> H.L. Heinsius G.J.A. van den Hamer	Academic Hospital Utrecht and Central Laboratory of the Red Cross Blood Transfusion Service and Inter-university Reactor Institute, Utrecht, Netherlands	^{131}I -asialo- α_1 -acid glycoprotein as a new pharmaceutical for dynamic liver function studies
61	<u>A.N. Ansari</u> H.L. Atkins R.M. Lambrecht C.S. Redvanly A.P. Wolf	Brookhaven National Laboratory, Upton, New York, USA	^{123}I -indocyanine green (^{123}I -ICG) as an agent for dynamic studies of hepatobiliary system
6	<u>G. Zita</u> K.K. Schwarz H. Uiberrak A. Hayr	Ludwig Boltzmann Institut für Nuklearmedizinische Gastroenterologie, Vienna, Austria	Combined liver studies with different tracers and methods
5	<u>G. Buttermann</u> I. Wolf H.W. Pabst G. Hör P.E. Schultze	Nuklearmedizinische Klinik und Poliklinik rechts der Isar der Technischen Universität München, Munich, Federal Republic of Germany, and Schering A.G., Berlin	Quantitative analysis of hepatograms using the gamma camera and labelled contrast media
66	<u>K.E. Britton</u> R. Suwanik C. Tuntawiroon M. Premoydin A. Reuben K. Narasimha M. Myers T.P. Wood N.J.G. Brown	The Middlesex Hospital Medical School, London, UK, and Siriraj Hospital, Mahidol University, Bangkok, Thailand	Computer-assisted blood-background subtraction (CABBS) hepatography with ^{131}I - and ^{125}I -bromo-sulphthalein (BSP)
69	Sutarman	Pertamina Central Hospital, Jakarta Seletan, Indonesia	Portohepatography by rectal administration of Na^{131}I in early diagnosis of portal hypertension

1127954

TUESDAY, 16 JULY 1974

09.00 - Session III - Gastrointestinal function studies

Renal function studies

IAEA-SM-185/

- | | | | |
|----|---|---|--|
| 10 | <u>P.J. Howlett</u>
D.C. Barber
H.L. Duthie
A.S. Ward | Weston Park Hospital and
Royal Infirmary,
Sheffield, UK | Principal components: a
new approach to the
analysis of gastric
emptying |
| 57 | <u>F. Kazem</u>
W.J.H. Schmidt
J. de Jong
E. Verdijk-Verbeeten | University Hospital,
Nijmegen, Netherlands | Dynamic flow studies of the
oesophagus and the stomach
using a radioactive drink |
| 65 | K.E. Britton | The Middlesex Hospital
Medical School,
London, UK | Invited review paper:
Renal function studies
with radioisotopes |
| 55 | <u>W. Bongartz</u>
H. Kuni
K. Naber | Klinik und Poliklinik für
Nuklearmedizin und
Strahlentherapie im
Radiologiezentrum und
Urologische Klinik der
Philipps-Universität,
Marburg, Federal Republic
of Germany | The steady state - a
standard condition neglectable
or compulsory for renal
function studies |
| 11 | <u>C.C. Nimmon</u>
J.M. McAlister
B. Hickson
W.R. Cattell | St. Bartholomew's
Hospital,
London, UK | Study of the post-
equilibrium slope approxi-
mation in the calculation
of glomerular filtration
rate using the ^{51}Cr -EDTA
single-injection technique |
| 89 | <u>J. Mirouze</u>
L. Monnier
C. Olivier | Hôpital Saint-Eloi,
Montpellier Cedex,
France | Etude iterative des fonctions
rénales par perfusion continué
de radiotraceurs avant et
après installation de traite-
ments du diabète sucré et
de l'hypertension |
| 48 | <u>W.N. Tauxe</u>
W. Hagge
G.B. Stickler | University of Alabama
Hospitals, Birmingham,
Alabama, and Mayo Clinic,
Rochester, Minnesota, USA | Estimation of effective
renal plasma flow in children
by use of a single plasma
sample after injection of
orthoiodohippurate |

TUESDAY, 16 JULY 1974

14.30 - Session IV - Renal function studies (continued)

Thyroid function studies

IAEA-SM-185/

- | | | | |
|----|---|---|--|
| 88 | <u>J.L. Morcellet</u>
A. Baret | Hôpital Sainte-Anne,
Toulon, France | Néphrogramme à l'hippuran:
expression des résultats en
débits et en temps de
séjour rénaux après analyse
des données recueillies par
une caméra travaillant avec
deux isotopes |
| 51 | <u>D.M. Shames</u>
<u>R.E.L. Farmer</u>
F.D. Rollo | University of California,
San Francisco,
California, USA | Detection of renal artery
stenosis in hypertensive
patients using the scin-
tillation camera and small
computer |
| 29 | <u>D.G. Pavel</u>
<u>J.L. Quinn, III</u>
B.D. Kahan
J.J. Bergan
B.R. Westerman | Northwestern University
McGaw Medical Center,
Chicago, Illinois, USA | Multiparametric evaluation
of renal transplants with
radionuclides |
| 49 | <u>E.V. Dubovsky</u>
<u>W.N. Tauxe</u>
A.G. Diethelm
W. Sterling | University of Alabama
Hospitals, Birmingham,
Alabama, USA | Dynamic renal studies in
the early post-transplant
period |
| 46 | <u>H.L. Atkins</u>
<u>R.M. Lambrecht</u>
A.N. Ansari
P.R. Bradley-
Moore
A.P. Wolf | Brookhaven National
Laboratory, Upton,
New York, USA | Continuous registration
of the thyroidal uptake of
^{99m}Tc and ^{123}I in the first
30 minutes |
| 58 | H. Dige-Petersen | Rigshospitalet
Copenhagen, Denmark | A comparison of iodide
and pertechnetate trapping
and loss in the human
thyroid gland |
| 79 | F.S. Ashkar
J.E. Beaver
<u>H.B. Hupf</u>
R.R. Sankey | Mount Sinai Medical Center
and University of Miami
School of Medicine, Miami
Beach, Florida, USA | Dynamic studies of thyroid
function using parenteral
Na^{123}I |
| 78 | <u>R.D. Ganatra</u>
<u>U.R. Raikar</u>
P. Ramanathan
S.H. Atmaram
A.M. Samuel | Radiation Medicine Centre,
Tata Memorial Hospital,
Bombay,
India | Dynamic studies of thyroid
and liver function with the
aid of a gamma camera and
an on-line digital computer |

WEDNESDAY, 17 JULY 1974

09.00 - Session V - Miscellaneous dynamic studies

IAEA-SM-185/

- | | | | |
|----|--|---|--|
| 21 | <u>F.K. Bauer</u>
N. Telfer
Q. Merrill | University of Southern
California School of
Medicine, Los Angeles,
California, USA | Coincidence counting of
radioactive sodium in
vivo |
| 22 | <u>N. Telfer</u>
C. Ballard | University of Southern
California School of
Medicine, Los Angeles,
California, USA | Saline kinetics in
sodium abortion |
| 20 | <u>J.J. Touya</u>
O.E. Anselmi
R.F. Riley
L.R. Bennett | Laboratory of Nuclear
Medicine and Radiation
Biology, University of
California, Los Angeles,
California, USA | 111 In-transferrin metabolism
as a measurement of bone-
marrow activity |
| 33 | <u>R.R. Price</u>
A.B. Brill | Vanderbilt University
Medical Center,
Nashville, Tennessee, USA | Estimation of slow dynamic
function parameters in
iron kinetics studies
using quantitative external
measurements and compart-
mental modelling analysis |
| 64 | <u>P.W. Horton</u>
J.H. Dagg
A.W. Hutcheon | Western Regional Hospital
Board and Western
Infirmary, Glasgow, UK | A new method of measuring
red cell lifespan using
the occupancy principle |
| 71 | <u>E. Gyftaki</u>
M. Kesse-Elias
P. Rapidis
V. Alevizou-
Terzaki
I. Sdougou-
Christakopoulou | Alexandra Hospital and
State Mental Hospital,
Athens, Greece | Absorption and blood
disappearance rate of folic
acid in patients receiving
barbiturates in excess in
combination with alcohol |
| 67 | <u>W.P.T. James</u>
P.M. Sender
P.J. Garlick
J.C. Waterlow | Dunn Nutritional
Laboratories, Cambridge,
and London School of
Hygiene and Tropical
Medicine, London, UK | The choice of label and
measurement technique in
tracer studies of body
protein metabolism in man |
| 47 | <u>G.L. Searle</u>
D. Shames
R.R. Cavalieri
J. DeGrazia
V. Zarcone | Veterans Administration
Hospital and University of
California Medical Center,
San Francisco, and Stanford
University Medical Center
and Veterans Administration
Hospital, Palo Alto,
California, USA | Kinetics of lactate
turnover and oxidation
in man |
| 2 | <u>I. Mena</u>
K. Horiuchi | Harbor General Hospital,
Torrance, California, USA,
and Catholic University,
Santiago, Chile | Decarboxylation of L-DOPA
studied by $^{14}\text{CO}_2$ analysis
in Parkinsonian and manic
patients |

1127957

THURSDAY, 18 JULY 1974

09.00 - Session VI - Regional blood flow and related studies

IAEA-SM-185/

- | | | | |
|-----|--|--|--|
| 102 | B.L. Holman | Harvard Medical School,
Peter Bent Brigham
Hospital, Boston,
Massachusetts, USA | Invited review paper:
Regional blood flow
studies with radioisotopes |
| 86 | <u>R. Itti</u>
T. Planiol
R. Floyrac | Laboratoire de
Biophysique, Faculté de
Médecine, Tours, France | L'intérêt des modèles
théoriques pour l'inter-
prétation des courbes de
transit cérébral |
| 37 | L.R. Witherspoon
<u>R.S. Preissig</u>
J.W. Tyson
C.C. Harris
J.K. Goodrich | Duke University Medical
Center and Veterans
Administration Hospital,
Durham, North Carolina,
USA | Data processing of cerebral
dynamic studies in the
differential diagnosis of
intracranial disease |
| 9 | <u>P.M. Ronai</u>
R.J. O'Reilly
P.J. Collins | Institute of Medical and
Veterinary Science,
Adelaide, South Australia,
Australia | Computer analysis of the
digital cerebral radio-
angiogram: results in
occlusive cerebrovascular
disease and subarachnoid
haemorrhage |
| 40 | F.H. DeLand | University of Florida
and Veterans Administration
Hospital, Gainesville,
Florida, USA | Clinical application of
cerebral dynamic per-
fusion studies |
| 53 | <u>H.A. Gerritsen</u>
I. Kazem
A. Hasman
P.J. Kuypers | University Hospital,
Nijmegen, Netherlands | Dynamic evaluation of
peripheral muscle perfusion
following vascular surgery |
| 45 | <u>B.H. Friedman</u>
M.E. Siegel
B.A. Rhodes
H.N. Wagner, Jr. | The Johns Hopkins Medical
Institutions, Baltimore,
Maryland, USA | Venous hemodynamics |

THURSDAY, 18 JULY 1974

14.30 - Session VII - Regional blood flow and related studies (continued)

Cardiac function studies

IAEA-SM-185/

- | | | | |
|-----|--|---|---|
| 72 | <u>E. Touya</u>
W. Perillo
A. Lalanne
J. Gherzi
O. Luz Souza
A. García Guelfi | Faculty of Medicine and
Hospital Maciel,
Montevideo, Uruguay | Quantitative evaluation
of extracranial neuro-
surgical CSF shunts |
| 14 | <u>P.V. Harper</u>
E. Rich
N. Lembares
K.A. Lathrop | Franklin McLean Memorial
Research Institute and
University of Chicago,
Chicago, Illinois, USA | Clinical tissue-perfusion
measurement using imaging
techniques with ^{81}Rb - $^{81\text{m}}\text{Kr}$ |
| 103 | C. Giuntini | Laboratorio di Fisiologia
Clinica del C.N.R. and
Clinica Medica II ^a dell'
Università di Pisa,
Pisa, Italy | Invited review paper:
Cardiac function studies
with radioisotopes |
| 75 | <u>E.J. Riihimäki</u>
A. Heiskanen
T. Heiskanen
E. Tähti | University Central Hospital,
Meilahti Hospital, and
University of Helsinki,
Helsinki, Finland | A model for the analysis
of radiocardiograms using
a digital computer in time-
sharing mode |
| 23 | <u>H.G. Parker</u>
D.C. Van Dyke
F.T. Upham
A.A. Windsor | Donner Laboratory and
Lawrence Berkeley Labora-
tory, University of
California, Berkeley,
California, USA | Analog and digital
simulation of the radio-
cardiogram |
| 54 | <u>H. Schicha</u>
K. Vyska
V. Becker
L.E. Feinendegen | Institute of Medicine,
Nuclear Research Center,
Jülich, Federal Republic
of Germany | Radiocardiography of
minimal transit times:
a useful diagnostic
procedure |
| 56 | <u>D. Emrich</u>
H. Luig
H.-P. Breuel
J. Neubaur
B.E. Strauer | University of Göttingen,
Göttingen, Federal
Republic of Germany | Non-invasive determination
of volume-equivalent curves
of the left ventricle |

FRIDAY, 19 JULY 1974

09.00 - Session VIII - Cardiac function studies (continued)

IAEA-SM-185/

- | | | | |
|----|---|---|---|
| 24 | <u>P.P. Steele</u>
D.C. Van Dyke
J.H. Ellis
R.S. Trow
H.O. Anger
H. Davies | Veterans Administration
Hospital and University of
Colorado Medical Center,
Denver, Colorado, and
Donner Laboratory, Univer-
sity of California,
Berkeley, California, USA | Evaluation of central
circulatory dynamics
with the scintillation
probe |
| 28 | <u>D. Ivančević</u>
R. Price
T. Bhasa
T. Graham
G.F. Atwood
A.B. Brill | Internal Clinic, Zagreb,
Yugoslavia, and Vanderbilt
University, Nashville,
Tennessee, USA | Computer analysis of
radiocardiograms of
patients with intracardiac
shunts |
| 81 | <u>G. McIlmoyle</u>
D. Ahnberg
G. LaFarge
S. Treves | Children's Hospital
Medical Center, Boston,
Massachusetts, USA | Localization of the level
of left to right shunts
by radionuclide angio-
cardiography |
| 93 | <u>M.E. Goldberg</u>
W.A. Neal
M.K. Loken
J.H. Moller
R.A. Ponto | University of Minnesota
Hospitals, Minneapolis,
Minnesota, USA | Shunt detection by means
of a gamma camera and
computer |
| 26 | <u>D.L. Kirch</u>
P.P. Steele
C. Metz
D.W. Brown | Veterans Administration
Hospital and University of
Colorado Medical Center,
Denver, Colorado, and
Franklin McClean Memorial
Research Institute and
University of Chicago,
Chicago, Illinois, USA | Quantification of cardiac
valvular regurgitation |
| 1 | <u>A. Chwojnik</u>
S. Fedchteyn
H. García del Río
V. Pecorini
C. Giuntini | Centro de Medicina Nuclear,
Hospital de Clínicas "José
de San Martín", Buenos
Aires, Argentina | The determination of
coronary blood flow with ^{84}Rb
and positron camera |
| 35 | <u>J.M. Metzger</u>
M.M. Ter-Pogossian | Laboratory of Nuclear
Medicine, University of
California, Los Angeles,
California, and Washington
University School of Medicine,
St. Louis, Missouri, USA | Dynamic studies of myocardial
blood flow using water
labeled with ^{15}O |
| 36 | <u>E.M. Stokely</u>
R.W. Parkey
F.J. Bonte | University of Texas Health
Sciences Center and Parkland
Memorial Hospital, Dallas,
Texas, USA | Regional myocardial per-
fusion studies: a critique
of data collection and
processing techniques |

1127960

THE TAU BETA PI ASSOCIATION
INCORPORATED
NATIONAL ENGINEERING HONOR SOCIETY
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED 1885



INCORPORATED 1947

P. O. BOX 8840, UNIVERSITY STATION
KNOXVILLE, TENNESSEE 37916
TELEPHONE: 615/546-4578

SECRETARY-TREASURER
ROBERT H. NAGEL

8/16/73

Mr. Wayne Renge

We aimed high, but unsuccessfully,
in trying to land Dr. Ray. We aren't
lowering our sights much in next
trying for Mr. Sanders. Your help
is appreciated.

R. H. Nagel

1127961

TSPE

TENNESSEE SOCIETY OF PROFESSIONAL ENGINEERS



August 17, 1973

Mr. T. A. Nemzek, Director
Division of Reactor Research and Development
U.S. Atomic Energy Commission
Washington, D.C. 20545

Dear Mr. Nemzek:

Thank you for your August 2 letter. We are disappointed, of course, that Dr. Ray is not able to address our Tennessee Society of Professional Engineers banquet on May 30, 1974, in Knoxville.

It is kind of you to offer to provide a speaker for that occasion, in line with our desire to focus the entire meeting as well as the banquet address on the energy crisis.

We note that Mr. William A. Anders is now a member of the Atomic Energy Commission. Mr. Anders is known personally to some of us here. He is an engineer himself, which is appropriate to our group, and he is widely admired for his achievements in the space program. Mr. Anders is new to the Atomic Energy Commission now, but by next May he will be able to speak from broad knowledge of the field.

We should therefore like to ask that Mr. Anders address our 25th anniversary meeting in Knoxville on May 30, 1974.

Sincerely yours,

Robert F. Collignon, P.E.
President

CC: Miss Gayle E. Johnson
Mr. William H. Cannon
bc: Mr. Wayne Range



1127962

metac



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

AUG 2 1973

Robert F. Collignon, P.E.
President
Tennessee Society of Professional Engineers
6063 Fountain Road
Knoxville, Tennessee 37918

Dear Mr. Collignon:

Chairman Ray has asked me to respond on her behalf to the very kind invitation extended to her in your letter of July 11 to address the Tennessee Society of Professional Engineers at their main banquet to be held on May 30, 1974. She regrets that she will not be able to attend because of other commitments at that time.

We agree that inasmuch as the theme of your meeting will be the energy crisis it would be desirable to have someone speak on that general topic from the point of view and position of the Atomic Energy Commission. Accordingly, we would be most happy to provide a speaker on that occasion. Since the meeting is almost a year away, we would like very much, if agreeable with you, to defer for the present a decision as to who will represent us.

We will be in touch with you at a later date when we have been able to make the necessary arrangements in this regard.

Sincerely,

A handwritten signature in dark ink, appearing to read "T. A. Nemzek", is written over the typed name.

T. A. Nemzek, Director
Division of Reactor Research
and Development

1127963

TSPE

TENNESSEE SOCIETY OF PROFESSIONAL ENGINEERS



July 11, 1973

4956

Dr. Dixy Lee Ray
Chairman
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Dr. Ray:

We invite you to address the members and guests of the Tennessee Society of Professional Engineers at the main banquet of our 25th anniversary meeting in Knoxville, Tennessee, on Thursday evening, May 30, 1974. We hope you will accept. The banquet will be held in the Hyatt Regency Hotel in Knoxville.

Although the banquet is normally held on the first day of our two-day annual session, it could be changed to Friday evening, May 31, 1974, if that suited your convenience better.

The theme of the T.S.P.E. meeting will be the energy crisis, and we should like to have you speak on that general topic from the point of view and position of the Atomic Energy Commission. In the technical sessions of our meeting we shall be discussing other aspects of the energy problem, of which we in this region are especially cognizant.

The T.S.P.E. members in attendance will come from all over the state, including a large contingent from our Oak Ridge chapter. In addition, we traditionally invite to our banquet other engineers of the area from the professional and technical societies. Also attending next May will be the president of the National Society of Professional Engineers and the N.S.P.E. executive director, Dr. Paul H. Robbins of Washington, D.C. We are planning for a total banquet attendance of 500 to 600 persons.

We offer a large and professionally competent audience on May 30 or 31, and we sincerely hope that your schedule will permit you to address our group then.

Sincerely yours,

Robert F. Collignon, P.E.
President

bc: Mr. Wayne Range



1127964

THE TAU BETA PI ASSOCIATION
INCORPORATED
NATIONAL ENGINEERING HONOR SOCIETY
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED 1885



INCORPORATED 1947

P. O. BOX 8840, UNIVERSITY STATION
KNOXVILLE, TENNESSEE 37916
TELEPHONE 615/546-4378

SECRETARY-TREASURER
ROBERT H. NAGEL

7/11/73

Mr. Wayne Rame

Thank you for your offer - through
Sam Sapine - to try to "grease the
skids" on this matter. Any help
you can give us in landing the
lady as our speaker will be
appreciated.

R. H. Nagel

1127965

FRIDAY, 19 JULY 1974

14.30 - Session IX - Pulmonary function studies

IAEA-SM-185/

- | | | | |
|-----|---|---|--|
| 104 | T. Munkner | Rigshospitalet,
Copenhagen, Denmark | Invited review paper:
Pulmonary function studies
with radioisotopes |
| 74 | <u>E.E. Tähti</u>
E.J. Riihimäki
S. Aaltonen
O. Karhola | University Central Hospital,
Meilahti Hospital,
Helsinki, Finland | Time-activity curve
analysis for dynamic
lung study |
| 15 | <u>T.K. Natarajan</u>
H.N. Wagner, Jr. | The Johns Hopkins Medical
Institutions, Baltimore,
Maryland, USA | Functional images of
the lungs |
| 18 | B.Y. Howard | University of Virginia,
Charlottesville,
Virginia, USA | Xenon ventilation and
perfusion studies |
| 31 | <u>V.D. Minh</u>
K.M. Moser
T.R. Overton
R.L. Jones
B.J. Sproule | University Hospital of
San Diego County and
University of California,
San Diego, California, USA
and University of Alberta,
Edmonton, Canada | Study of regional
respiratory mechanics
using ^{133}Xe and a multi-
detector system |
| 82 | <u>C. Giuntini</u>
F. Fazio | Laboratorio di Fisiologia
Clinica del C.N.R. and
Clinica Medica II ^a dell'
Università di Pisa,
Pisa, Italy | Extravascular lung water:
its measurement by
simultaneous pulmonary
and aortic sampling and
iterative convolution |
| 90 | <u>F. Ruff</u>
P. Even
P. Duroux
I. Caubarrère
P. De Vernejoul
G. Brouet | Faculté de Médecine
Necker-Enfants-Malades and
Hôpital Laënnec,
Paris, France | Mesure, en continu, par
deux isotopes de l'eau
pulmonaire extra-vasculaire.
Application d'une nouvelle
méthode à l'analyse du
recrutement et de la filtra-
tion capillaires pulmonaires
chez l'homme normal |

18.00 - Closing of the Symposium



INTERNATIONAL ATOMIC ENERGY AGENCY

**SYMPOSIUM ON DYNAMIC STUDIES WITH RADIOISOTOPES
IN CLINICAL MEDICINE AND RESEARCH**

Knoxville, Tennessee, USA, 15-19 July 1974

IAEA-SM-185

PROVISIONAL LIST OF PARTICIPANTS

N.B.: Any changes to be made in this list should be reported to the Registration Desk by mid-day on Tuesday, 16 July 1974.

1127967

ARGENTINA

Chwojnik, A.

Departamento Biología Nuclear Aplicada
Centro de Medicina Nuclear, Facultad de
Medicina y CNEA, Hospital de Clínicas
"José de San Martín"
Córdoba 2351, Buenos Aires

AUSTRALIA

Booth, J.A.

Department of Nuclear Medicine
Royal Prince Alfred Hospital
Missenden Rd., Camperdown 2050

Ronai, P.M.

Institute of Medical and Veterinary Science
Box 14, Rundle Street Post Office,
Adelaide, South Australia 5000

AUSTRIA

Zita, Gerlinde T.A.M.

Ludwig Boltzmanninstitut für Nuklear-
medizinische Gastroenterologie
K. Elisabethspital, Huglgasse 1-3
1150 Vienna

CANADA

Farrer, P.A.

Department of Nuclear Medicine
McGill University & Royal Victoria
Hospital, 687 Pine Avenue West
Montreal, H3A 1A1

Klassen, G.A.

Department of Cardiology, Royal Victoria
Hospital, 687 Pine Avenue West
Montreal, H3A 1A1

Mamacos, J.P.

University Hospital, Department of
Nuclear Medicine, 339 Windermere Rd.,
London, Ontario N6G 2K3

Meindock, H.

Toronto Western Hospital, University of
Toronto, 25, Leonard Ave., Suite 410
Toronto, Ont.

Mildenberger, R.R.

Department of Cardiology, Royal Victoria
Hospital, 687 Pine Avenue West
Montreal, H3A 1A1

Overtone, T.R.

Division of Biomedical Engineering
10-102 Clinical Sciences Building
University of Alberta, Edmonton
Alberta T6G 2G3

Petkau, A.

Medical Biophysics Branch, Whiteshell
Nuclear Research Establishment
Atomic Energy of Canada Limited
Pinawa, Manitoba R0E 1L0

CHILE

Mena, I.

Division of Nuclear Medicine
Catholic University, Hospital Clinic
Cas 114-D, Santiago

C S S R

Runczik, I.

Institute of Clinical and Experimental
Medicine, Budějovická 800, 140 00 Prague 4

DENMARK

Dige-Petersen, H.

Department of Nuclear Medicine, University
Hospital, Rigshospitalet, Blegdamsvej 9
2100 Copenhagen

Munkner, T.

Department of Nuclear Medicine
Rigshospitalet, Blegdamsvej 9,
2100 Copenhagen

Rossing, N.

Department of Clinical Physiology
Finsen Institute, Strandboulevarden 49
2100 Copenhagen

Uhrenholdt, A.

Cardiovascular Laboratory, Rigshospitalet
Blegdamsvej 9-11, 2100 Copenhagen

EGYPT

Abdel-Wahab, M.F.

Radioisotope Department, Atomic Energy
Establishment, Dokki, Cairo

Megahed, Y.M.

Radioisotope Department, Atomic Energy
Establishment, Dokki, Cairo

Razzak, M.A.

Faculty of Medicine, Cairo University
Cairo

FINLAND

Riihimäki, E.J.

Helsinki University Central Hospital
Meilahti Hospital, 00290 Helsinki 29

Tahti, E.E.

Helsinki University Central Hospital
Meilahti Hospital, 00290 Helsinki 29

FRANCE

Akerman, M.	INSERM (Unité 41), Hopital Foch 40, rue Worth, 92151 Suresnes
Bertrand, A.	Hopital de Nancy-Brabois, Route de Neufchateau, 54500 Vandoeuvre Les - Nancy
Bru, A.	U.E.R. Médicale de Toulouse-Rangueil Service de Biophysique 133, route de Narbonne, 31400 Toulouse
Chanard, J.M.	Département de Néphrologie, Hopital Necker Service d'Etudes Métaboliques et INSERM 90 149, rue de Sèvres, Paris 15ème
Itti, R.	Faculté de Médecine, Laboratoire de Biophysique, 2 bis, boulevard Tonnellé 37000 Tours
Melki, G.	Faculté de Médecine, Laboratoire de Physique Médicale, Bd. du Professeur L. Bernard, 35000 Rennes
Mirouze, J.	Clinique des Maladies Métaboliques et Endocriniennes, Hopital Saint-Eloi 34059 Montpellier Cedex
Monnier, L.H.	Clinique des Maladies Métaboliques et Endocriniennes, Hopital Saint-Eloi 34059 Montpellier Cedex
Morcellet, J.L.P.	Hopital d'Instruction des Armées Sainte Anne, Centre d'Etudes et de Recherches Biophysiques appliquées à la Marine Service des Radioisotopes H.I.A. Sainte Anne, Toulon 83800
Prospert, J.	Département des Radioéléments, B.P.No. 2 91190 Gif-sur-Yvette
Raynaud, C.	Service Hospitalier Frédéric Joliot Département de Biologie, 91406 Orsay
Ruff, F.	Département de Physiologie, Faculté de Médecine Necker-Enfants-Malades 156, rue de Vaugirard, 75015 Paris

GERMANY, FED.REP.OF

Bongartz, W.W.	Radiologiezentrum der Philipps-Universität 355 Marburg/Lahn, Robert Koch Str. 8a
----------------	---

GERMANY, FED.REP.OF (cont'd)

Buttermann, G.	Nuklearmedizinische Klinik und Poliklinik rechts der Isar der Technischen Universität München, 22, Ismaningerstr., 8000 München
Deininger, H.K.	Department of Radiology and Nuclear Medicine Kreiskrankenhaus, Postfach, 7710 Donaueschingen
Emrich, D.	Division of Nuclear Medicine, Departments of Medicine and Radiology, University of Göttingen, Humboldtallee 1, 34 Göttingen
Glöbel, B.	Radiologische Universitäts-Klinik 665 Homburg/Saar
Illi, V.O.	Schering AG, P.O.Box 650311, 1 Berlin 65
Kollmer, W.E.	Gesellschaft für Strahlen- u. Umwelt- forschung mbH, Institut für Biologie 8042 Neuherberg
Leopold, G.	Merck, Frankfurter Str. 250, 61 Darmstadt
Neubauer, H.P.	Farbwerke Hoechst AG, Frankfurt
Schicha, H.	Institute of Medicine, Kernforschungsanlage Jülich, Postfach 365, 517 Jülich
Schulze, P.E.	Schering AG, Müllerstr. 170/172, 1 Berlin 65
Unger, V.H.	Biotechnik-Laboratorium, Chirurg.Universitäts- klinik, Klinikum Westend, Freie Universität Berlin, Spandauer Damm 130, 1 Berlin 19

GHANA

Bruce-Tagoe, A.A.	Division of Haematology, Department of Pathology, University of Ghana Medical School P.O.Box 4236, Accra
-------------------	--

GREECE

Gyftaki, E.	Radioisotope Department, "Alexandra Hospital" Vas.Sofias-K.Lourous Str., Athens 611
Kesse-Elias, M.	Radioisotope Department, "Alexandra Hospital" Vas.Sofias-K.Lourous Str., Athens 611

INDIA

Ganatra, R.D.

Radiation Medicine Centre, Bio-medical Group
Bhabha Atomic Research Centre, Tata Memorial
Hospital, Parel, Bombay-12

INDONESIA

Sutarman

Laboratory Services, Pertamina Central
Hospital, P.O.Box 111, Kabayoran Baru,
Jakarta Selatan

IRAQ

Abdul-Ghafoor, A.S.

College of Medicine, 4A/28 Sephina,
Adhemia, Baghdad

Abu Tabikh, M.M.

College of Medicine, University of Baghdad,
Medical City, Baghdad

Al-Saffar, G.

College of Medicine, University of Baghdad,
Medical City, Baghdad

Mohammed, K.H.

Institute of Radiology and Nuclear Medicine
Baghdad

ITALY

Galli, G.

Istituto di Medicina Nucleare,
Università Cattolica del Sacro Cuore
Via Pineta Sacchetti 526, 00168 Rome

Giuntini, C.

Laboratorio di Fisiologia Clinica del C.N.R.
Via P. Savi, 8, 56100 Pisa

Troncione, L.

Istituto di Medicina Nucleare,
Università Cattolica del Sacro Cuore
Via Pineta Sacchetti 644, 00168 Rome

JAMAICA

Alele, C.O.

Department of Nuclear Medicine, Rippel
Building, University Hospital of the West
Indies, Mona Kingston 7, Jamaica

JAPAN

Kaneko, M.

Department of Radiology, Nagoya University
School of Medicine, 65 Tsurumai-cho,
Showa-ku, Nagoya

MALAYSIA

Mahadev, V.

Department of Radiotherapy and Nuclear
Medicine, Hospital Besar
Kuala Lumpur

MEXICO

Avila Ramirez, Estrella

Hospital del Nino I.M.A.N., Centro de
Estudios Nucleares U.N.A.M.
Insurgentes sur 3,700-C

Eberstadt Sichel, P.L.J.J.

Departamento de Medicina Nuclear del I.N.E.N.
Centro de Estudios Nucleares de la U.N.A.M.
Providencia 1229, Mexico 12, D.F.

NETHERLANDS

Gerritsen, H.A.

St.Radboud Hospital, Department of Radio-
diagnosis, Geert Grooteplein 18 Zuid,
Nijmegen

van der Ent, G.M.

Laboratorium voor Nucleaire Geneeskunde
Dr.G.H.Amshoffweg 1, Postbus 174, Hoogeveen

van Herk, G.

Central Isotope Laboratory, Academic
Hospital, 59, Oostersingel, Groningen

Kazen, I.

Department of Radiotherapy and Nuclear
Medicine, University Hospital
Geert Grooteplein Zuid 18, Nijmegen

van Rijk, P.P.

Department of Nuclear Medicine, Academic
Hospital Utrecht, Catharijnesingel 101,
Utrecht

van Rijk-Zwicker, G.L.

St. Clara Hospital, Department of Surgery
Olympiaweg 350, Rotterdam

van Zanten, B.

Vrije Universiteit, Radionuclidenconcentrum
De Boelelaan 1083a, Postbus 7161, Amsterdam

NIGERIA

Olurin, E.O.

Department of Surgery, University College
Hospital, Ibadan

NORWAY

Rootwelt, K.

Section of Nuclear Medicine, Department of
Clinical Chemistry, Rikshospitalet, Oslo 1

PAKISTAN

Siddiqui, M.A.

Atomic Energy Medical Centre, Jamshoro

PERU

Guzmán Acevedo, C.B.

Junta de Control de Energía Atómica
Av. Luis Aldana 120, Urb. Santa Catalina
Lima 13

SINERRA LEONE

Luke, E.M.F.

The Ministry of Health, 5 Gloucester Street
Freetown

SOUTH AFRICA

Dormehl, Irene C.

Atomic Energy Board, Private Bag x256
Pretoria

SWEDEN

von Malmberg, P.O.S.

The Gustaf Werner Institute, University
of Uppsala, Box 531, 751 21 Uppsala

SWITZERLAND

Zehnder, K.J.T.

Sandoz AG, Biopharmaceutical Department
4002 Basel

TURKEY

Laleli, Y.R.

Hacettepe Medical Center, Ankara

UNITED KINGDOM

Barber, D.C.

Weston Park Hospital, Whitham Road
Sheffield, S10 2SJ

Britton, K.E.

The Middlesex Hospital Medical School
Mortimer Street, London W1N 7RL

Gunn, W.F.

Scottish Home and Health Dept., Room 235
Pentland House, 47 Robb's Loan
Edinburgh 4, EH14 1TY

Horton, P.W.

Department of Clinical Physics and Bio-
Engineering, Western Regional Hospital Board
11 West Graham Street, Glasgow, G4 9LF

UNITED KINGDOM (cont'd)

Howlett, P.J.	Sheffield Regional Medical Physics Dept., Weston Park Hospital, Whitham Road Sheffield, S10 2SJ
James, W.P.T.	Dunn Nutritional Laboratory, Milton Road Cambridge
MacL d, M.A.	Department of Nuclear Medicine, Royal Naval Hospital, Haslow, Gosport
Marlow, C.G.	The Radiochemical Centre Ltd., White Lion Road, Amersham, Buckinghamshire, HP7 9LL
Marshall, D.H.	M.R.C. Mineral Metabolism Unit The General Infirmary, Great Georges Str. Leeds, LS1 3EX
Nimmon, C.C.	Radioisotope Department, St.Bartholomew's Hospital, London E.C.1
Oliver, Y.	G.D. Searle & Co.Ltd., Lane End Road, High Wycombe, Buckinghamshire, HP12 4HL
Tidd, M.J.	G.D. Searle & Co.Ltd., Lane End Road High Wycombe, Buckinghamshire, HP12 4HL
Wraight, E.P.	Department of Nuclear Medicine Addenbrookes Hospital, Trumpington Str. Cambridge

U S A

Ali, Z.	Department of Neurology, University of Alabama School of Medicine, University Station, Birmingham, Alabama 35294
Alpert, N.M.	Physics Research Laboratory, Massachusetts General Hospital, Fruit Street, Boston MA 02114
Andrews, G.	Oak Ridge Associated Universities P.O.Box 117, Oak Ridge, Tennessee 37830
Ansari, A.N.	Brookhaven National Laboratory, Upton New York 11973
Atkins, H.L.	Medical Department, Brookhaven National Laboratory, Upton, New York 11973
Bates, B.B.	Division of Nuclear Medicine, Duke University Medical Centre, Box 3166, Durham North Carolina 27710

U S A (cont'd)

Bauer, F.K.	University of Southern California School of Medicine, 2025 Zonal Avenue Keith Building, Room 500, Los Angeles California 90033
Beaver, J.E.	Mount Sinai Medical Center, Cyclotron Facility, Division of Nuclear Medicine 4300 Alton Road, Miami Beach, Florida 33140
Bell, P.R.	Oak Ridge National Laboratory, Bldg. 9201-2 Oak Ridge, Tennessee 37830
Bernard, S.R.	Health Physics Division, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tennessee 37830
Beschi, R.J.	University of Alabama School of Medicine, University Station, Birmingham, Alabama 35294
Bonar, Jeanne R.	Department of Medicine, University of Mississippi Medical Center 2500 North State Str., Jackson, Mississippi 39216
Brill, A.B.	Division of Nuclear Medicine, Vanderbilt University Medical Centre, Nashville, Tennessee 37232
Brown, D.W.	University of Colorado Medical Center 4200 East Ninth Avenue, Denver, CO 80220
Camargo, E.E.	Division of Nuclear Medicine, The Johns Hopkins Medical Institutions 615 N. Wolfe Street, Baltimore, Maryland 21205
Chamberlain, E.C.	Washoe Medical Centre, 77 Pringle Way, Reno, Nevada 89502
Cloutier, R.J.	Oak Ridge Associated Universities P.O. Box 117, Oak Ridge, Tennessee 37830
Cook, C.B.	Fairfax Hospital, 3300 Gallows Road, Falls Church, Virginia 22046
Cooper, M.D.	Division of Nuclear Medicine, University of Maryland Hospital School of Medicine Baltimore, Maryland 21201
DeLand, F.H.	Department of Radiology, J. Hillis Miller Health Center, Gainesville, Florida 32602

USA (cont'd)

Dillon, R.S.	Oak Ridge National Laboratory, P.O.Box Y, Oak Ridge, Tennessee 37830
Dubovsky, Eva V.	University of Alabama Hospitals, Division of Nuclear Medicine, 619 South 19th Street, Birmingham, Alabama 35233
Eckhardt, W.	New Canaan Medical Group 173 East Avenue New Canaan, Connecticut 06840
Edwards, C.L.	Oak Ridge Associated Universities, P.O.Box 117 Oak Ridge, Tennessee 37830
Erickson, J.J.	Division of Nuclear Medicine, Vanderbilt University Medical Center, Nashville, Tennessee 37232
Fadem, R.S.	Self & Mercy Hospital, 2765 Second Avenue, San Diego, California 92103
Farmer, R.E.L.	University of California, San Francisco, California 94143
Fierce, J.A.	University of Alabama School of Medicine University Station, Birmingham, Alabama 35294
Fitting, D.W.	Department of Radiology, University of Tennessee, Memorial Research Center & Hospital 1924 Alcoa Highway, Knoxville, Tennessee 37920
Freed, B.R.	Memorial Sloan-Kettering Cancer Center Biophysics Laboratory, 410 East 68th Street, New York, N.Y. 10021
Friedman, B.H.	Johns Hopkins Medical Institutions, Room 1102 615 N. Wolfe Street, Baltimore, Maryland 21205
Furchner, J.E.	Los Alamos Scientific Laboratory, P.O.Box 1663 Los Alamos, New Mexico 87544
Ganji, S.	Department of Neurology, University of Alabama School of Medicine, University Station Birmingham, Alabama 35294
Gibbs, W.D.	Medical Division, Oak Ridge Associated Universities, P.O.Box 117, Oak Ridge, Tennessee 37830
Giddings, C.B.	Nuclear Medicine Associates, 500 West 10th Place, Arizona 85201, Mesa
Goel, Y.S.	Nuclear Medicine Department, Shelby Memorial Hospital, P.O.Box 488, Alabaster, Alabama 35007

U S A (cont'd)

Goldberg, M.E.	Division of Nuclear Medicine and Dept. of Pediatric Cardiology, University of Minnesota Hospitals, 412 Union Street Southeast, Minneapolis, Minnesota 55455
Halsey, J.H.	University of Alabama School of Medicine University Station, Birmingham, Alabama 35294
Han, C.J.	E.I. Du Pont de Nemours & Co., Biochemical Dept., Experimental Station, Wilmington, Del. 19898
Harper, P.V.	Franklin McLean Memorial Research Institute Box 420, 950 East 59th Street, Chicago, Illinois 60637
Hayes, R.L.	Oak Ridge Associated Universities, P.O.Box 117 Oak Ridge, Tennessee 37830
Haynie, T.P.	The University of Texas System Cancer Center M.D.Anderson Hospital & Tumor Institute 6723 Bertner Avenue, Houston, Texas 77025
Hein, M.M.	Division of Oncology and Radiopharmaceutical Drug Products-HFD-150 5600 Fishers Lane, Rockville, Maryland 20852
Holmes, G.W.	Bethany Community Health Center 5025 N.Paulina St., Chicago, Illinois 60640
Hoop, B.	Massachusetts General Hospital, Boston, Massachusetts 02114
Hopkins, J.D.	Department of Radiology, Meharry Medical College, 1005-18th Avenue North, Nashville, Tennessee 37208
Howard, Barbara Y.	Department of Radiology, University of Virginia School of Medicine, Charlottesville, Va. 22901
Hupf, H.B.	Mount Sinai Medical Center, Cyclotron Facility Division of Nuclear Medicine, 4300 Alton Road Miami Beach, Florida 33140
Iber, F.L.	Veterans Administration Hospital 3900 Loch Raven Boulevard, Balto., Md. 21218
Jackson, G.L.	Section of Nuclear Medicine, Harrisburg Hospital, South Front Street, Harrisburg, Pennsylvania 17101
Juncker, D.F.	Department of Physiology, University of Minnesota, 424 Millard Hall, Minneapolis, Minnesota 55455

U S A (cont'd)

Kawada, T.	Los Angeles County - University of Southern California Medical Center, 1200 North State Street, Los Angeles, California 90033
Kawin, B.	Division of Oncology and Radiopharmaceutical HFD-150, 5600 Fishers Lane, Rockville Md. 20852
Kirch, D.L.	Denver VA Hospital, University of Colorado Medical Center, 1055 Clermont, Denver, Colorado 80220
Klotz, A.P.	University of Kansas Medical Center 39th & Rainbow Boulevard, Kansas City, Kansas 66103
Kontzen, Frances N.	University of Alabama Hospitals, Birmingham, Alabama 35233
Kretchmar, A.L.	University of Tennessee Memorial Research Center, 1924 Alcoa Highway, Knoxville, Tennessee 37920
Lathrop, Katherine A.	Franklin McLean Memorial Research Institute University of Chicago, Box 420, 950 East 59th Street, Chicago, Illinois 60637
Lavendusky, W.L.	Department of Radiology, Oklahoma Osteopathic Hospital, 9th Street and Jackson Avenue, Tulsa, Oklahoma 74127
Lieberthal, A.S.	Nuclear Medicine Ltd., 606 West Wisconsin Avenue, Milwaukee, Wisconsin 53203
Lindstrom, D.P.	Division of Nuclear Medicine, Vanderbilt University Medical Center, Nashville, Tennessee 37232
Lipscomb, A.H.	Methodist Hospital, University of Tennessee College of Medicine, 1265 Union Ave., Memphis, Tennessee 38204
Llaurado, J.G.	Marquette University and the Medical College of Wisconsin at VAC, Wood, Wisconsin 53193
Logic, J.R.	University of Alabama Hospitals Birmingham, Alabama 35233
Lott, Alice F.	University of Alabama Hospitals Birmingham, Alabama 35233
Maher, F.T.	Mayo Clinic, 200 First Street Southwest, Rochester, Minnesota 55901

U S A (cont'd)

Mantle, A.J.	University of Alabama Hospitals Birmingham, Alabama 35233
Maskewitz, Betty F.	Oak Ridge National Laboratory, Radiation Shielding Information Centre, P.O.Box X, Oak Ridge, Tennessee 37830
McDonald, Martha W.	University of Alabama Hospitals Birmingham, Alabama 35233
McTaggart, W.G.	Baylor College of Medicine and Texas Institute for Rehabilitation and Research 1333 Moursund Ave., Houston, Texas 77025
Meckstroth, G.R.	Department of Radiology, Tulane University School of Medicine, 1430 Tulane Avenue New Orleans, LA 70112
Metzger, Judith M.	Laboratory of Nuclear Medicine, University of California, 900 Veteran Avenue, Los Angeles, California 90024
Minh, V.D.	University Hospital of San Diego County Pulmonary Division, 225 West Dickinson Str., San Diego, California 92103
Morales, J.O.	Department of Nuclear Medicine, Episcopal Hospital, Front Street & Lehigh Avenue, Philadelphia, Pennsylvania 19125
Natarajan, T.K.	The John Hopkins Medical Institutions 615 N.Wolfe St., Baltimore, Maryland 21205
Nataro, M.	V.A. Hospital, 800 Zorn Avenue, Louisville, Ky 40202
Nestor, J.D.	Associates In Laboratory Medicine 1601 No Tucson Blvd., Tucson, Arizona 85716
Ogg, Alice E.	University of Tennessee, Nuclear Medicine Technology, Route # 7, David Lane, Concord, Tennessee 37720
Ogg, W.W.	Atomic Energy Commission, 320 E.Seminary Wheaton, Illinois 60187
Parker, H.G.	Lawrence Berkeley Laboratory, University of California, Building 74B, Room 101 Berkeley, California 94720
Patton, J.A.	Division of Nuclear Medicine, Vanderbilt University Medical Center, Nashville, Tennessee 37232

U S A (cont'd)

Pavel, D.G.	Department of Nuclear Medicine Northwestern University, McGaw Medical Center, Superior St.& Fairbanks Ct. Chicago, Illinois 60611
Poggenburg, J.K.	Oak Ridge National Laboratory, P.O.Box X Oak Ridge, Tennessee 37830
Poston, J.W.	Oak Ridge National Laboratory, P.O.Box X Oak Ridge, Tennessee 37830
Preissig, R.S.	Duke University Medical Center Durham, North Carolina 27710
Price, R.R.	Division of Nuclear Medicine, Vanderbilt University Medical Center, Nashville, Tennessee 37232
Quinn, J.L.	Department of Nuclear Medicine Northwestern University, McGaw Medical Center, Superior St.& Fairbanks Ct., Chicago, Illinois 60611
Ratliff, C.	St. Agnes Hospital, Westview Mall, Professional Suite 5772, Baltimore, Maryland 21228
Rhea, T.C.R.	Department of Pediatric Cardiology, Vanderbilt University Medical Center Nashville, Tennessee 37232
Rhodes, B.A.	Johns Hopkins Medical Institutions 615 North Wolfe Street, Baltimore, Maryland 21205
Rollins, M.	Lutheran Medical Center, Department of Nuclear Medicine, 2609 Franklin Boulevard, Cleveland, Ohio 44113
Ross, D.A.	Oak Ridge National Laboratory, P.O.Box X Oak Ridge, Tennessee 37830
Rudavsky, A.Z.	Montefiore-Morrisania Affiliation Morrisania City Hospital, 168th St. and Gerard Ave., Bronx, N.Y. 10452
Russell, C.D.	University of Alabama School of Medicine University Station, Birmingham, Alabama 35294
Russell, R.	University of Alabama Hospitals 619 S. 19th Street, Birmingham, Alabama 35233

U S A (cont'd)

Ryan, J.M.	St. Joseph's Hospital, 69 West Exchange St. St. Paul, Minnesota 55102
Sarrell, W.	Box 2127, Anniston, ALA 36201
Searle, G.L.	Veterans Administration Hospital 4150 Clement St., San Francisco, California 94121
Selby, J.B.	Department Nuclear Medicine, University Ky. Medical Center, Lexington, Ky. 40506
Shames, D.M.	Nuclear Medicine Section, Dept. of Radiology University of California, San Francisco, California 94143
Shaprio, B.	Department of Nuclear Medicine, Albert Einstein Medical Center, York & Tabor Roads, Philadelphia, Pennsylvania 19141
Shearer, D.R.	Lutheran Medical Center, Department of Nuclear Medicine, 2609 Franklin Boulevard, Cleveland, Ohio 44113
Siegel, M.E.	Johns Hopkins Medical Institutions 615 N. Wolfe Street, Room 1102, Baltimore, Maryland 21205
Silver, L.	Department of Nuclear Medicine, Queens Hospital Center, 82-68 164th St., Jamaica, New York 11432
Sims, J.C.	University of Alabama Hospitals, Birmingham, Alabama 35233
Smith, G.A.	Veterans Administration Center, Wing D-12N, Wood, WI 53193
Snyder, W.S.	Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tennessee 37830
Sonnemaker, R.E.	University of Alabama Hospitals, Birmingham, Alabama 35233
Stallworth, W.P.	East Tenn. Baptist Hospital, Blount Ave., Knoxville, Tennessee 37920
Stauffer, J.C.	University of Alabama Hospitals, 1808 7th Av. S. Birmingham, Alabama 35294
Steele, P.P.	Denver VA Hospital, 1055 Clermont, Denver, Colorado
Stein, I.	Department of Nuclear Medicine, Albert Einstein Medical Center, York & Tabor Roads, Philadelphia, Pennsylvania 19141

U S A (cont'd)

Stokely, E.M.	University of Texas Health Sciences Center Department of Radiology, 5323 Harry Hines, Dallas, Texas 75235
Taplin, G.V.	Laboratory of Nuclear Medicine, University of California, 900 Veteran Avenue, Los Angeles, California 90024
Tauxe, W.N.	University of Alabama Hospitals, Division of Nuclear Medicine, 619 South 19th St., Birmingham, Alabama 35233
Telfer, Nancy	Department of Radiology, University of Southern California School of Medicine, Room 10-610, Unit I, 1200 North State St., Los Angeles, California 90033
Tomkinson, Elsie V.	Eastern State Hospital, 5908 Lyons View Rd., Knoxville, Tennessee
Teresi, J.D.	Division of Nuclear Medicine, Stanford University Medical Center, Stanford, California 94305
Touya, J.J.	UCLA Laboratory of Nuclear Medicine and Radiation Biology, 900 Veteran Avenue, Los Angeles, California 90024
Treves, S.	Department of Nuclear Medicine, Children's Hospital Medical Center, 300 Longwood Avenue, Boston, Massachusetts 02115
Viragh, Z.	Veterans Administration Center Hot Springs, SD 57747
Westerman, B.R.	Northwestern Memorial Hospital, Superior Street & Fairbanks Ct., Chicago, Illinois 60611
Wiley, A.L.	Radiology Dept, University of Wisconsin Center for Health Sciences, 1300 University Ave. Madison, Wisconsin 53706
Williams, B.	University of Alabama Hospitals, Birmingham, Alabama 35233
Wills, E.L.	Department of Neurology, University of Alabama School of Medicine, University Station, Birmingham, Alabama 35294
Wilson, E.M.	Department of Neurology, University of Alabama School of Medicine, University Station, Birmingham, Alabama 35294
Wixson, S.E.	University of Alabama Hospitals, Birmingham, Alabama 35233
Youngstrom, R.E.	Schering Corporation, 60 Orange Street, Bloomfield, New Jersey 07003

URUGUAY

Touya, E.

Centro de Medicina Nuclear, Hospital Maciel
25 de mayo 174, Montevideo

YUGOSLAVIA

Ivančević, D.

Radioisotope Department, Internal Clinic,
Rebro, Kišpatićeva 12, 41000 Zagreb

ZAIRE, REP.OF

Ditu, M.

Cliniques Universitaires de Kinshasa
B.P. 123, Kinshasa XI

O R G A N I Z A T I O N S

I E C (International Electrotechnical Commission)

Britton, K.E.
(see also UK)

Institute of Nuclear Medicine,
The Middlesex Hospital Medical School
Mortimer Street, London W1N 7RL

Riihimäki, E.
(see also Finland)

Meilahti Hospital, 00290 Helsinki 29

Tähti, E.
(see also Finland)

Meilahti Hospital, 00290 Helsinki 29

W H O (World Health Organization)

Litvak, J.

Health Services, Regional Office for the
Americas/Pan American Sanitary Bureau