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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.

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, multichannel 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.

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 Arrangements

Local 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,

C E Normand

Charles E. Normand
Conference Coordinator

CEN:wm

cc: (see attached distribution list)

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	3,500
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
O. W. Range, AEC-ORO
B. S. Reesor, ORNL
J. E. Rounsaville, AEC-ORO
D. A. Sundberg, UCC-ND

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 radionuclides 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 radionuclides, 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 radionuclides 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.

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

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, ells, primes; capital and lower case letters – S, s; V, v; x, X, $\times$, χ; P, p, ρ). As no bold face lettering can be set, 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

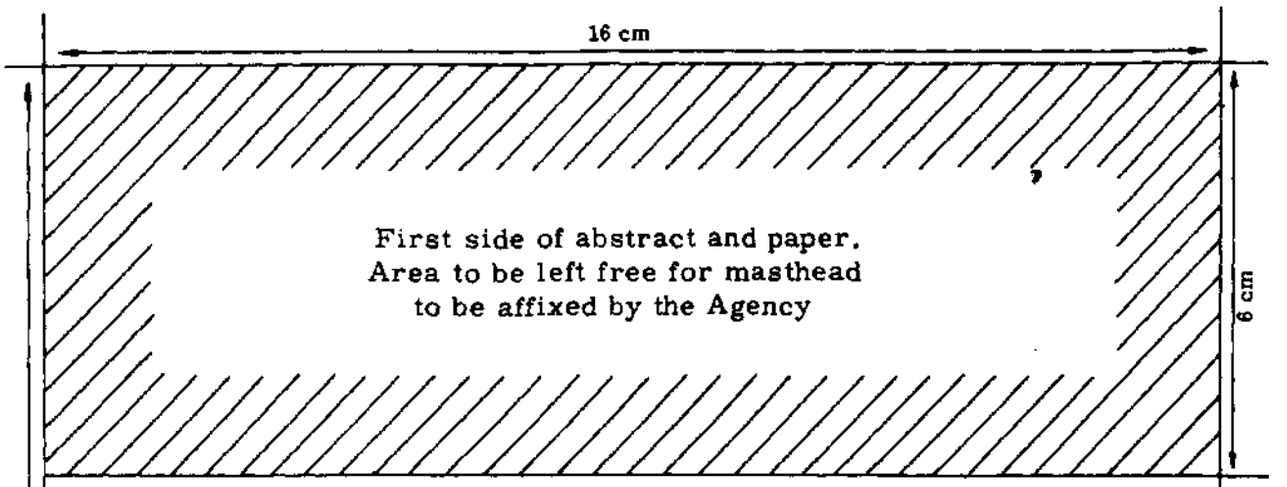
Slides of the following sizes can be shown: 5 cm × 5 cm; 8.5 cm × 8.5 cm; 8.5 cm × 10.5 cm; 9 cm × 12 cm.

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

First side of abstract and paper

Paper title, initials and name(s) of Author(s)
and institute name and location here

Specimen references (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., HISCOTT, 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

ABBREVIATIONS AND SYMBOLS WHICH MAY BE USED WITHOUT EXPLANATION

Prefixes

d	(deci)	10^{-1}	da	(deka)	10^{1}
c	(centi)	10^{-2}	h	(hecto)	10^{2}
m	(milli)	10^{-3}	k	(kilo)	10^{3}
μ	(micro)	10^{-6}	M	(mega)	10^{6}
n	(nano)	10^{-9}	G	(giga)	10^{9}
p	(pico)	10^{-12}	T	(tera)	10^{12}
f	(femto)	10^{-15}			
a	(atto)	10^{-18}			

Note: μm (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

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	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., ⌀	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
$T_{\frac{1}{2}}$, $T_{1/2}$	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. 6)
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. equal to
$\overrightarrow{\overrightarrow{p}}$	tensor
$\vec{A}$	vector
×	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
$Btu \cdot cm^{-1} \cdot s^{-1} \cdot °C^{-1}$
(not Btu/cm/s/°C)

Neutron flux density:
$(n/cm^2 \cdot s$, or $n \cdot cm^{-2} \cdot s^{-1}$
(not $n/cm^2/s$)

Time integral of neutron flux density: n/cm^2 or $n \cdot cm^{-2}$
(not nvt for the unit)

Electrical energy: J or kW·h

REV: 1973-06-20

FORM A

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.
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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

FORM B

INTERNATIONAL ATOMIC ENERGY AGENCY

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Will 500 preprints of your paper for distribution to participants be supplied by you?
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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-^{81m}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}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 Radionculides" 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 Myocardian 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 Califonria, 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 Angiocardiography (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 -
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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

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. Kasparec 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. Jiřičková 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	W.D. Gibbs 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	J.K. Poggenburg R.L. Hayes	Oak Ridge National Laboratory and Oak Ridge Associated Universities, Oak Ridge, Tennessee, USA	Radiopharmaceuticals for function studies: present and future
70	P.P. van Rijk 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	A.N. Ansari 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	G. Zita K.K. Schwarz H. Uiberrak A. Hayr	Ludwig Boltzmann Institut für Nuklearmedizinische Gastroenterologie, Vienna, Austria	Combined liver studies with different tracers and methods
5	G. Buttermann 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	K.E. Britton 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

TUESDAY, 16 JULY 1974

09.00 - Session III - Gastrointestinal function studies
Renal function studies

IAEA-SM-185/

10	P.J. Howlett 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	I. Kazem 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	W. Bongartz 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	C.C. Nimmon J.M. McAlister B. Hickson W.R. Cattell	St. Bartholomew's Hospital, London, UK	Study of the post-equilibrium slope approximation in the calculation of glomerular filtration rate using the ^{51}Cr-EDTA single-injection technique
89	J. Mirouze 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 traitements du diabète sucré et de l'hypertension
48	W.N. Tauxe 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	J.L. Morcellet 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	D.M. Shames R.E.L. Farmer F.D. Rollo	University of California, San Francisco, California, USA	Detection of renal artery stenosis in hypertensive patients using the scintillation camera and small computer
29	D.G. Pavel J.L. Quinn, III 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	E.V. Dubovsky W.N. Tauxe A.G. Diethelm W. Sterling	University of Alabama Hospitals, Birmingham, Alabama, USA	Dynamic renal studies in the early post-transplant period
46	H.L. Atkins R.M. Lambrecht 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 H.B. Hupf 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	R.D. Ganatra U.R. Raikar 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	F.K. Bauer N. Telfer Q. Merrill	University of Southern California School of Medicine, Los Angeles, California, USA	Coincidence counting of radioactive sodium in vivo
22	N. Telfer C. Ballard	University of Southern California School of Medicine, Los Angeles, California, USA	Saline kinetics in sodium abortion
20	J.J. Touya 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
38	R.R. Price 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 compartmental modelling analysis
64	P.W. Horton 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	E. Gyftaki 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	W.P.T. James 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	G.L. Searle 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	I. Mena K. Horiuchi	Harbor General Hospital, Torrance, California, USA, and Catholic University, Santiago, Chile	Decarboxylation of L-DOPA studied by $^{14}CO_2$ analysis in Parkinsonian and manganic patients

AFTERNOON FREE

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	R. Itti T. Planiol R. Floyrac	Laboratoire de Biophysique, Faculté de Médecine, Tours, France	L'intérêt des modèles théoriques pour l'interprétation des courbes de transit cérébral
37	L.R. Witherspoon R.S. Preissig 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	P.M. Ronai R.J. O'Reilly P.J. Collins	Institute of Medical and Veterinary Science, Adelaide, South Australia, Australia	Computer analysis of the digital cerebral radioangiogram: 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 perfusion studies
53	H.A. Gerritsen I. Kazem A. Hasman P.J. Kuypers	University Hospital, Nijmegen, Netherlands	Dynamic evaluation of peripheral muscle perfusion following vascular surgery
45	B.H. Friedman 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	E. Touya W. Perillo A. Lalanne J. Gherzi O. Luz Souza A. García Guelfi	Faculty of Medicine and Hospital Maciel, Montevideo, Uruguay	Quantitative evaluation of extracranial neurosurgical CSF shunts
14	P.V. Harper B. 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-^{81m}Kr
103	C. Giuntini	Laboratorio di Fisiologia Clinica del C.N.R. and Clinica Medica II^ dell' Università di Pisa, Pisa, Italy	Invited review paper: Cardiac function studies with radioisotopes
75	E.J. Riihimäki 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	H.G. Parker D.C. Van Dyke F.T. Upham A.A. Windsor	Donner Laboratory and Lawrence Berkeley Laboratory, University of California, Berkeley, California, USA	Analog and digital simulation of the radiocardiogram
54	H. Schicha 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	D. Emrich 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	P.P. Steele 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, University of California, Berkeley, California, USA	Evaluation of central circulatory dynamics with the scintillation probe
28	D. Ivančević R. Price T. Rhea 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	G. McIlmoyle 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 angiocardiography
93	M.E. Goldberg 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	D.L. Kirch 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	A. Chwojnik 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	J.M. Metzger 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	E.M. Stokely R.W. Parkey F.J. Bonte	University of Texas Health Sciences Center and Parkland Memorial Hospital, Dallas, Texas, USA	Regional myocardial perfusion studies: a critique of data collection and processing techniques

THE TAU BETA PI ASSOCIATION
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KNOXVILLE, TENNESSEE 37916
TELEPHONE 615/946-4578

SECRETARY-TREASURER
ROBERT H. NAGEL

8/16/73

Mr. Wayne Range

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

R Nagel

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

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,

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

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,

R.F.C.

Robert F. Collignon, P.E.
President

bc: Mr. Wayne Range

TSPE

1127964

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SECRETARY-TREASURER
ROBERT H. NAGEL

7/11/73

Mr. Wayne Ramp

Thank you for your offer — through Sam Sagaria — 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	E.E. Tähti E.J. Riihimäki S. Aaltonen O. Karhola	University Central Hospital, Meilahti Hospital, Helsinki, Finland	Time-activity curve analysis for dynamic lung study
15	T.K. Nataraján 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	V.D. Minh 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	C. Giuntini F. Fazio	Laboratorio di Fisiologia Clinica del C.N.R. and Clinica Medica II^ dell' Università di Pisa, Pisa, Italy	Extravascular lung water: its measurement by simultaneous pulmonary and aortic sampling and iterative convolution
90	F. Ruff 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 filtration 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.

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