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IRPS BULLETIN

Volume 17 No 1 April, 2003

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President's Column

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Profiles of Members Standing for the I.R.P.S. Council

New Members and Address Changes

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OFFICE BEARERS : 2000 - 2003

President:

M.J. Cooper
Department of Physics
University of Warwick
Coventry CV4 7AL U.K.

Secretariat:

R.H. Pratt
Dept. of Physics
Univ Pittsburgh, PA
15260 USA

Treasurer:

A. Ljubicic
Rudjer Boskovic Institute
Bijenicka 54
Zagreb 41000 Croatia

Regional Vice Presidents:

North America:
J. Hubbell (USA)

South and Central America:

A. Paschoa (Brazil)

Africa and Middle East:

D.T.L. Jones (South Africa)

East Europe
L. Musilek (Czech Republic)

F.S.U
A.E. Shikanov (Russia)

Western Europe:

F. Rustichelli (Italy)

S.E. Asia :

S.C. Roy (India)

Australasia :
D.C. Creagh (Australia)

North East Asia:

Luo Zhengming (PR China)

Executive Councillors:

D.A. Bradley (Malaysia)

L. Gerward (Denmark)

A.M. Ghose (India)

W. Gilboy (UK)

M. J. Farquharson (UK)

R.T. Mainardi (Argentina)

D. McLean (Australia)

T. Nakamura (Japan)

EDITORIAL BOARD

Editor : P.M. Bergstrom (U.S.A.)
Editorial Committee : D.C. Creagh (Australia) S.A. McKeown (Australia)

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PRESIDENT'S COLUMN

Malcolm Cooper

As ever there is mixed news for scientific research in general and radiation physics in particular. In Britain there does seem to be a small but real increase in science research funding that will benefit universities and research institutes.

In Europe the TESLA free electron x-ray laser project (Hamburg) and the ion beam facility (Darmstadt) got the go-ahead but the European neutron spallation source probably will not. The European Space Agency have postponed the Rosetta mission to land a probe on comet Wirtanen in 2011 because of launcher problems and in the USA the tragedy with the space shuttle leaves manned space flight under a big cloud of uncertainty.

On the brighter side there are anniversaries to celebrate! Twenty years ago Carlo Rubbia at CERN found evidence for the W-boson, with the discovery of the Z-boson hot on its heels.

However, without doubt, the most important anniversary we celebrate this April 2003 is the 50th anniversary of the discovery of the double helix structure of DNA. It has been variously referred to as the single most important discovery of the 20th century and the biggest advance in biological sciences since Darwin. Even today the scientists involved and the nature of the discovery continue to make news. I must admit to having a special affection for it. Ten years later I started my research training as an x-ray crystallographer in the Cavendish Laboratory where much of the work had been performed. All of us can be proud of the contribution that they made, not only to a branch of radiation physics but also to the future well being of mankind.

Malcolm Cooper .

Next

ELECTION TIME
Leif Gerward

ELECTION TIME

Election of Executives and Officers of IRPS

The triennial election of IRPS office bearers is now taking place.

Members of the Society in good standing are kindly invited to complete the ballot paper and return it to the Secretary of the Society, following the instructions that accompany the ballot.
(The Ballot form has been enclosed with the Bulletin sent to Members, but it can also be downloaded from this site, in Word or pdf.)

The ballots will be counted and the result announced at ISRP-9 in
Cape Town, South Africa, 27 - 31 October 2003.

For Executive Councillors with six years term, it is seen that there are five names on the ballot.
Thus, for the first time, we have more candidates than slots, which may be a healthy departure for the Society. It will for sure create a lot more interest in the present election than we have seen on preceding occasions.

Leif Gerward

Next

Profiles of Members Standing for the I.R.P.S. Council

President	Secretary	Treasurer	Vice Presidents	Councillors

NEW MEMBERS and ADDRESS CHANGES

Welcome to New Members :

Dr Ayad Miftah Shahout, Libya

Dr Sunday A. Jonah, Nigeria

New Members' addresses are listed in the Contact Members' Details
(click on country next to name)

Changes to Members' Addresses and Contact Information

Address change :

Prof. Dr. Gyula Csikai, Hungary

Dr. H.M. Mahesh, U.K. ***(from India)***

Email updates :

Prof. Suprakash Roy, India

Dr Stuart Green, U.K.

Members' new addresses and contact information are listed in the Contact Members' Details
(click on country next to name)

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B A L L O T

For all posts, except those of executive councillors (six years term), vote for one by marking the appropriate box. For executive councillors (six years term) you may vote for up to four candidates. For all positions you may write in names of other members of the Society and cast your ballot for them.

President (vote for one)

Richard H. Pratt (USA) ☐

_____ ☐

Secretary (vote for one)

David A. Bradley (UK) ☐

_____ ☐

Treasurer (vote for one)

Ante Ljubicic (Croatia) ☐

_____ ☐

Vice Presidents:
Western Europe (vote for one)

Michael J. Farquharson (UK) ☐

_____ ☐

Eastern Europe (vote for one)

Ladislav Musílek Czech Rep.) ☐

_____ ☐

F.S.U. (vote for one)

Andrei V. Korol (Russia) ☐

_____ ☐

North America (vote for one)

John H. Hubbell (USA) ☐

_____ ☐

South & Central America (vote for one)

Anselmo S. Paschoa (Brazil) ☐

_____ ☐

South East Asia (vote for one)

Suprakash C. Roy (India) ☐

_____ ☐

North East Asia (vote for one)

Luo Zhengming (P.R. China) ☐

_____ ☐

Africa & Middle East (vote for one)

Dan T.L. Jones ☐

_____ ☐

Australasia (vote for one)

Dudley C. Creagh (Australia) ☐

_____ ☐

Executive Councillors:
Six years term (vote for four)

Paul Bergstrom (USA) ☐

T. Nakamura (Japan) ☐

William L. Dunn (USA) ☐

Jorge Fernandez (Italy) ☐

Kulwant Singh Thind (India) ☐

_____ ☐

_____ ☐

_____ ☐

_____ ☐

Three years term* (vote for one)

Joanne O'Meara (Canada) ☐

_____ ☐

* Filling the vacancy of M.J. Farquharson. Thus, the term is for three years

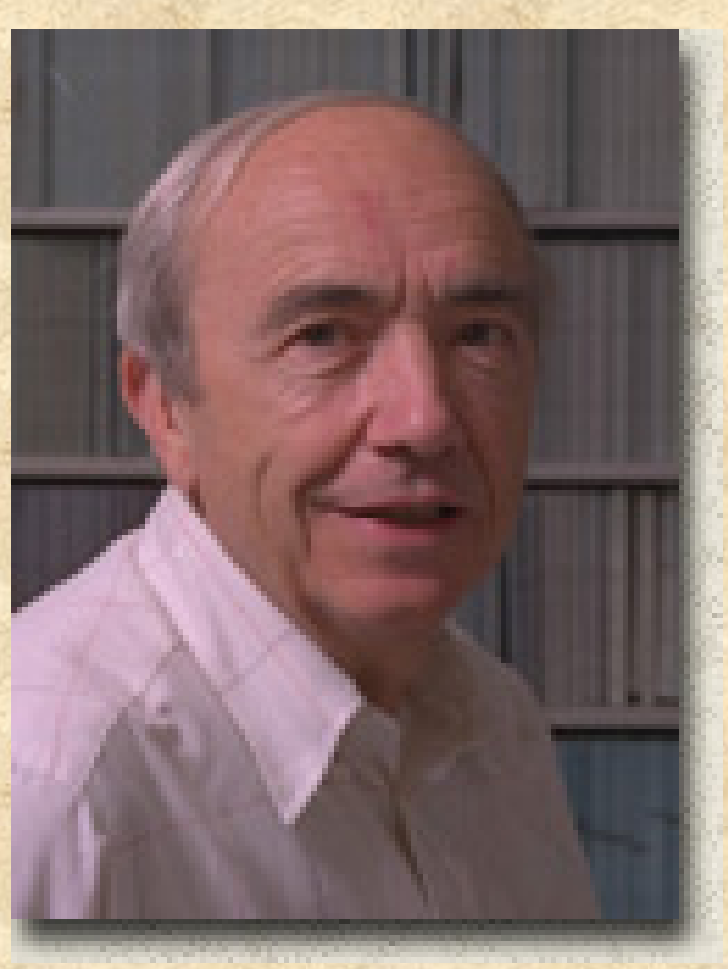
Use this ballot to vote. The double envelope system is recommended for its return, to preserve the secrecy of your ballot. Place the ballot in a small unsigned envelope. Enclose the envelope in a larger envelope, signing and printing your name and showing your return address (this is needed to establish the validity of your ballot) and mail it to:

Prof. R.H. Pratt, IRPS Secretary, Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA 15260, USA.

Your ballot must be received at the address given above by October 15, 2003 in order for it to be sure to be counted. The ballots will be counted, and the result announced at ISRP-9 in Cape Town, South Africa, 27-31 October 2003.

Member Standing for President

Richard H Pratt



- Ph.D. University of Chicago 1959
- Stanford University 1959-1964
- University of Pittsburgh since 1964
- Dean, Semester at Sea 1984 and 1990
- Program Director for Theoretical Physics, National Science Foundation, 1987-1989 and 2000-2001.
- Secretary, International Radiation Physics Society (IRPS), 1985-2003.
- Fellow of the American Physical Society;
- Fellow of the American Association for the Advancement of Science.
- Ph.D. thesis advisor for twenty graduate students

Research areas :

- theoretical physics, particularly theoretical atomic physics, with both analytical and numerical approaches.
- The interaction of photons and electrons in the atomic field, from eV to MeV energies.
- Atomic photoelectric effect, bremsstrahlung, pair production, photon atom scattering (Rayleigh and Compton).
- Atomic processes in plasmas.
- Cooperative international research programs in Asia (China, India, Korea, Malaysia), Europe (Croatia, England, France, Poland, Romania, Russia), South America (Argentina, Brazil), etc.

Statement : IRPS, as an international scientific society of individual members, broadly representative of the international scientific community, is relatively unique.

It has played a useful role in promoting communication and understanding within that community. It can become more visible, and it can play a role in communication between the scientific community and the larger world society.

As President I hope to help IRPS move in these directions. The members of IRPS have many talents, and much expertise. IRPS needs to develop ways to link the talents and expertise of its members, helping them to be more effective in addressing problems of concern and areas of opportunity.

As President I will try to develop mechanisms permitting IRPS to be effective in promoting linkages among its members.

Link Page to Members Standing for I.R.P.S. Council

Member Standing for Secretary

David Bradley

The IRPS is an organisation to whose furtherance I can truly claim to be dedicated. Indeed, my involvement in IRPS reaches back to the birth of the Society, participating in the organisation of the Symposium ISRP-2 in Penang (in 1982) at a time at which the protem committee charged with steering its inception was first set up.

Being too junior to be a member of that committee (the names of which included Joseph Rotblat, Daphne Jackson, Didier Isabelle and Ananda Mohan Ghose) I played a not unimportant role in behind-the-scenes organisational matters. (A.M. Ghose, my PhD supervisor at the time of ISRP-2, was together with John Hubbell, one of the two originators of the idea of the Society. Given the situation, I found myself steered into service.)

In the company of Richard Pratt and John Hubbell, I was to go on to help write the constitution of the Society, a document that remains largely unscathed, undoubtedly due to the efforts of Richard and John, and to be Assistant Editor and subsequently Editor of the very earliest editions of IRPS-NEWS, maintaining this means of communication with the membership for close to a decade. In more recent years I have been an organiser of various of the Symposia and also Editor of several of the Proceedings of ISRP's.

A regular attendee of the Council meetings, I am proud to have spent time in providing for the needs of the Society. ISRP is a Society of members, providing an important vehicle for many very important aims of scientists involved in a panopoly of radiation physics interests. The Society is nothing without its membership, and its aims and ambitions are important to me. To remain in service to the Society would be my pleasure and I would be glad of your support.

Link Page to Members Standing for I.R.P.S. Council

Member Standing for Treasurer

Ante Ljubicic

Ante Ljubicic received a Ph.D. in Physics in 1969 from the University of Zagreb.

Since 1962 he has been employed at the Rudjer Boskovic Institute in Zagreb and currently he is the Head of the Experimental Physics Division.

He specialized in nuclear physics and during 1969-1989 carried out many basic research experiments on higher-order electromagnetic processes in nuclear and atomic transitions.

His works on investigation of the Pauli Exclusion Principle are highly valued. He pioneered the neutrino physics research in Croatia and in 1991 with his team joined the neutrino oscillation experiment (NOMAD collaboration) at CERN, Geneva.

Currently at CERN he is involved in the long-based neutrino oscillation and axion experiments.

He worked frequently at the University of Ottawa as Visiting Scientist, and was Visiting Guest Professor at Kyoto University and University of Malaysia.

He is one of the founders of the International Radiation Physics Society : during 1982-1985 he was a member of the Pro-tem Committee for setting-up the Society, during 1984-1990 Vice President, and since 1990 Treasurer of the Society.

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Members Standing for Regional Vice President

EASTERN EUROPE	NORTH AMERICA	CENTRAL and SOUTH AMERICA	AFRICA and MIDDLE EAST	SOUTH EAST ASIA	NORTH EAST ASIA
Ladislav Musilek	John Hubbell	Anselmo Paschoa	Dan Jones	Suprakash Roy	Luo Zhengming

Ladislav Musílek

Professor Ladislav Musilek graduated from the Czech Technical University in Prague, Faculty of Technical and Nuclear Physics (renamed later to Nuclear Sciences And Physical Engineering), Prague, Czech Republic (specialisation : Dosimetry and Application of Ionising Radiation), gaining his PhD from CTU Prague in 1977.

In 1983 he became Associate Professor of nuclear and subnuclear physics (CTU Prague) and Professor of experimental physics (CTU Prague) in 1996. Appointments have included Vice-Dean, Dean, and currently Vice-Rector of the CTU in Prague.

Teaching activities have included lectures in PhD courses and supervising of PhD theses. He is a member of the commission for the defence of PhD theses in Nuclear Engineering, and has significant participation in preparing a BSc programme in Radiation Protection and the Environment and a MSc programme in Medical Radiation Physics in the framework of Nuclear Engineering Courses at the Faculty.

In addition, he participated in Life Long learning programmes at FNSPE CTU Prague and (in 1980s) at the Faculty of Mathematics and Physics of Comenius University, Bratislava.

His scientific and research activities have included:

- Technical applications of radionuclides, especially transmission and scattering of gamma-ray beams
- Integrating dosimetric methods
- Collaboration with IRI TU Delft
- Radioanalytical methods in the environment and Constructing an instrument for thermoluminescence dating of historic architecture (GA CR grant, 1994 -96)
- Collaboration with the Faculty of Architecture of CTU Prague
- Building a laboratory for applying methods of the exact sciences in historic monument research (funded by a grant of the Ministry of Education, Youth and Sports of the Czech Republic, in collaboration with the Faculty of Architecture and the Faculty of Civil Engineering of CTU).

Professor Musilek has authored/co-authored : two books; three chapters in books written by teams; over 100 scientific papers in journals and conferences; 7 textbooks for students; 2 patents; participation in preparing technical standards in the field of ionising radiation.

He is a member of 5 Scientific Boards, as well as a member of the External Advisory Group "Fission" in the EURATOM section of the EU 5th Framework Programme 2000-2002, the Union of Czech Mathematicians and Physicists, and the Radiation Protection Society at the Czech Medical Society.

Professor Musilek has been Vice President of the International Radiation Physics Society for Central and Eastern Europe since 1997.

Statement : My reasons for membership of Council are :

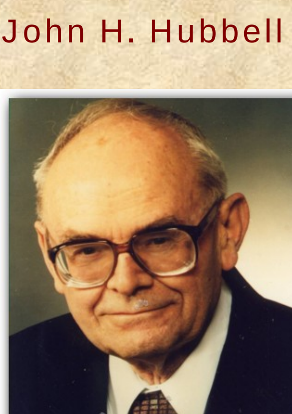
a) The whole professional record.

b) Some parts of the world have become anti-nuclear and anti-radiation. It is necessary to promote these sciences.

c) IRPS and the ISRP are good platforms for international links, collaboration and exchange of knowledge.

d) Radiation physics is not only my job, but also my hobby.

John H. Hubbell



John H. Hubbell (b. 1925 in Ann Arbor, Michigan, USA) is a retired but still professionally active radiation physicist at the National Institute of Standards and Technology (formerly National Bureau of Standards), Gaithersburg, USA (1950-1988).

He obtained a BSE in Engineering Physics 1949 and an MS in Physics 1950 from the University of Michigan, Ann Arbor (Outstanding Alumnus Award, 1995, Dept. of Nuclear Engineering), and holds a Doctor Honoris Causa (1996) from the National University of Cordoba (Fac. Math., Astron. & Phys.). He is author or co-author of approximately 110 publications including an invited article "Radiation Physics" in the Encyclopedia of Physical Science and Technology (Academic Press 2002). Three of his publications have been identified by the Institute for Scientific Information (Phila.) as "Citation Classics."

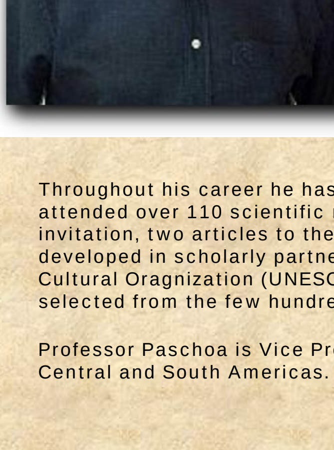
He is most known for his evaluations, computations and compilations of photon (x-ray, gamma-ray, bremsstrahlung) cross sections and attenuation (and energy-absorption) coefficients used in diverse medical, engineering, analytical and other applied and basic-research disciplines. He is also known for his computationally-tractable solutions of problems associated with the predictions of radiation fields, including exponential attenuation and buildup factor, from extended sources such as rectangular plaque sources and circular disk sources (including off-axis, involving the "Epstein-Hubbell generalized elliptic-type integral").

He was an Editor (1988-1992) for Applied Radiation and Isotopes and Editor-in-Chief (1992-2001) of Radiation Physics and Chemistry (now Consulting Editor).

Besides being a founding member of the IRPS (and IRPS President 1994-1997) he is a Fellow of the American Nuclear Society (Radiation Industry Award 1985), of the American Physical Society, and of the Health Physics Society (Distinguished Scientific Achievement Award 2001), and he is a member of the Radiation Research Society and of the Society of Nuclear Medicine (Paul Aebersold Award 1985). He is an Academician (Hon., 1994) of the International Higher Education Academy of Sciences (Moscow), and is a recipient of the Faculty Medal (1982) from the Technical University of Prague. He appears in all editions of Marquis' Who's Who in America since 1992. He has the distinction of being the only remaining IRPS member who has attended all of the ISRP's to date, starting with ISRP-1 (Calcutta 1974). Hobbies: eclipse chasing, harmonica playing.

Statement: Besides having the useful (1) overt agenda of the IRPS global radiation physics family as a cross-fertilization crossroads of a variety of otherwise-compartmentalized disciplines under the broad umbrella of Radiation Physics, I visualize the Society as having a (2) hidden agenda aimed toward global peace and understanding, via the individual international personal friendships spawned from the unique opportunities provided by the IRPS and the face-to-face ISRP's, 'tunneling' through the formidable barriers separating the very-different cultures and political systems on this small and incredibly precious planet, also between the developing and developed countries as aided by our novel tiered IRPS dues structure. I would like to continue my long-time promotion of both of these two agendas.

Anselmo S. Paschoa



Anselmo S. Paschoa was born in Rio de Janeiro, Brazil and has a Ph.D. from New York University.

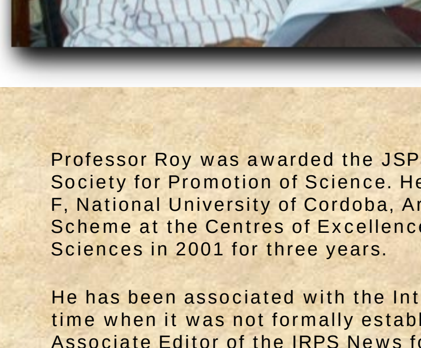
He is Professor of Radiation Physics at Pontifical Catholic University of Rio de Janeiro (PUC-Rio) and is a member of several international program committees on Radiation Physics and Environmental Sciences.

Professor Paschoa was Director for Radiation Protection, Nuclear Safety and Safeguards at the Brazilian Nuclear Energy Commission (CNEN) from May 1990 to August 1992 and was a member of the U.S. National Academy of Sciences Committee on the Evaluation of Guidelines for Exposure to Naturally-Occurring Radioactive Materials. Over the years he has been Visiting Professor at the University of Utah, Guest Scientist at Brookhaven National Laboratory, and Visiting Scientist at Memorial Sloan-Kettering Cancer Center.

Throughout his career he has published more than 120 scientific articles and papers and attended over 110 scientific meetings throughout the world. Recently, he has written, by invitation, two articles to the Enclyclopedia of Life Support Systems (EOLSS), which was developed in scholarly partnership with the United Nations Educational, Scientific and Cultural Oragnization (UNESCO) - he will also publish, in due time, a selection of poems selected from the few hundreds that he has written.

Professor Paschoa is Vice President of the International Radiation Physics Society for Central and South Americas.

Suprakash C. Roy



Professor Roy has been a Professor of Physics at Bose Institute, Calcutta, India, since 1986, after receiving his PhD degree from Calcutta University and gaining postdoctoral experience at the University of Pittsburgh and Yale University, U.S.A.

His major research interests are in photon-atom scattering, radiation damage in solids and liquids, radiation detectors and medical physics.

He has more than 100 publications to his credit and is a regular visitor to the University of Pittsburgh, USA in connection with the co-operative research on photon-atom scattering with Professor Richard H. Pratt.

Professor Roy was awarded the JSPS Invitation Fellow fo the year 2000 by the Japan Society for Promotion of Science. He has been appointed Visiting Associate at the Fa.M.A. F, National University of Cordoba, Argentina under the TWAS-UNESCO Associateship Scheme at the Centres of Excellence in the South by the Third World Academy of Sciences in 2001 for three years.

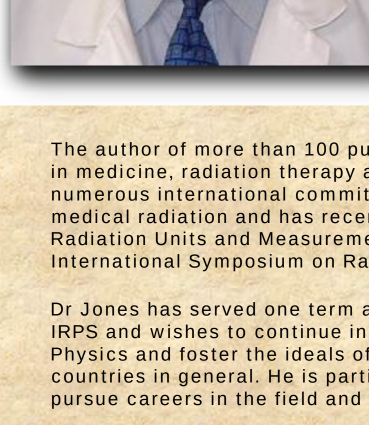
He has been associated with the International Radiation Physics Society (IRPS) from the time when it was not formally established, and was Membership Secretary of the IRPS and Associate Editor of the IRPS News for about 15 years after its foundation.

He is currently the Vice-President (South-East Asia) of the International Radiation Physics Society.

For further details, one may visit the website: http://www.boseinst.ernet.in

Statement: I would like to hold a position in the Executive Council of the IRPS in order to foster and nurture the growth of radiation physics in the South-East Asian Region and in India in particular, which I have been doing for years.

Dan T.L. Jones



Dan T L Jones, MSc, PhD [Nuclear Physics], MSc (Med) [Medical Physics], CPhys, FInstP, was born in Cape Town, South Africa and received his academic degrees from the University of Cape Town.

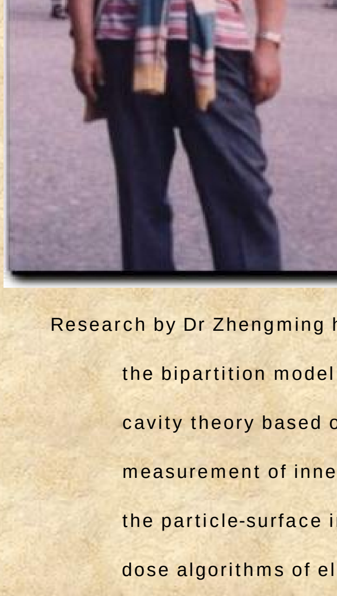
After stints in Nuclear Physics research at the University of Wisconsin, Madison WI, USA and the former South African Atomic Energy Board, he entered the field of Medical Physics at Cape Town's Groote Schuur Hospital.

Since 1978 he has led the fast neutron and proton radiation therapy programs at iThemba Laboratory for Accelerator Based Sciences (formerly National Accelerator Centre), Somerset West (Cape Town), as Head of the Medical Radiation Group.

The author of more than 100 publications, his special interests are nuclear techniques in medicine, radiation therapy and dosimetry. He has been, and remains, a member of numerous international committees and advisory bodies concerned with aspects of medical radiation and has recently been elected to the International Commission on Radiation Units and Measurements (ICRU) . He is organiser of the upcoming 9th International Symposium on Radiation Physics.

Dr Jones has served one term as Vice President for Africa and the Middle East of the IRPS and wishes to continue in this capacity in order promote the study of Radiation Physics and foster the ideals of the IRPS in the region in particular and in developing countries in general. He is particularly interested in encouraging young Africans to pursue careers in the field and sees the IRPS as a vehicle for this.

Luo Zhengming



Dr. Zhengming is the Director of the Key Lab for Radiation Physics and Technology of the Education Ministry of China. He is a Professor at Sichuan University in Chengdu in the People's Republic of China and also Director of the Center for Radiation Physics in the Institute of Nuclear Science and Technology at Sichuan University.

He has served as an IRPS Vice President for the past ten years. He has been an editor of the IRPS recognized journal Radiation Physics and Chemistry. He has also edited the Chinese Journal of Radiation Research and Radiation Processing. He spent two years as a Visiting Professor at the Karolinska Institute.

Dr. Zhengming's awards include a fellowship from the Alexander Von Humboldt Foundation which he used to spend two years at the University of Munich. He has also received several awards of Scientific and Technical Progress of the China Nuclear Industry Corporation.

Research by Dr Zhengming has focused on :

the bipartition model for charged particle transport

cavity theory based on a virtual electron source concept

measurement of inner-shell ionization cross sections by electron impact

the particle-surface interaction for fusion technique

dose algorithms of electrons and photons in radiotherapy

the study of inverse problems in mathematical physics.

From 1976 through 2002, Dr. Zhengming was the author or co-author of 130 papers.

Link Page to Members Standing for I.R.P.S. Council

Members Standing for Executive Councillor

Paul M Bergstrom | Jorge Eduardo Fernandez | William L Dunn
Takashi Nakamura | Joanne O'Meara | Kulwant Singh Thind

Paul M Bergstrom

Paul M. Bergstrom, Jr. is a physicist at the National Institute of Standards and Technology in the United States of America. He works in the Radiation Interactions and Dosimetry Group of the Ionizing Radiation Division, a position he has held since June, 2000.

Prior to this he received a Bachelor of Science degree in Electrical Engineering from the Pennsylvania State University in 1982 and a Ph.D. in Physics from the University of Pittsburgh in 1992.

He held a postdoctoral position at the University of Tennessee and the Oak Ridge National Laboratory until 1994. He then joined the Lawrence Livermore National Laboratory's Physics Directorate as a postdoctoral associate, eventually joining the technical staff.

His research is in computational radiation physics, concentrating on the development and application of Monte Carlo transport codes and on the fundamental interactions of radiation with matter.

Dr. Bergstrom is author or coauthor of approximately 30 scientific publications. He holds a patent for software methods in radiation transport and was cowinner of a 1999 R&D 100 award. He is an editor of the journal Radiation Physics and Chemistry and of the International Radiation Physics Society Bulletin. He currently serves on the advisory board of the International Radiation Physics Society and on the Programme Committee of ISRP-9.

Statement: I have been immersed in the international atmosphere of Radiation Physics since first joining the research group of Professor Pratt in 1986. The collaborations established then and later have been invaluable to me. In addition to maintaining the traditional roles of IRPS, I would like to work towards enhancing the Society's appeal to younger physicists.

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Jorge Eduardo Fernandez

After obtaining his M.Sc. in Physics (1977) and his Ph.D. in Physics from the University of Cordoba in Argentina (1985), Professor Fernandez was a Researcher in atomic and nuclear spectroscopy at institutes in Buenos Aires and Cordoba.

From 1994 on, he has been affiliated with the University of Bologna, Italy. He is Professor at the Energetics, Nuclear Engineering and Environmental Control Department of this University, a Researcher of the Italian National Institute for Physics of Matter (INFM), and a consultant to several companies and institutes in Italy and abroad.

After obtaining his M.Sc. in Physics (1977) and his Ph.D. in Physics from the University of Cordoba in Argentina (1985), Professor Fernandez was a Researcher in atomic and nuclear spectroscopy at institutes in Buenos Aires and Cordoba.

From 1994 on, he has been affiliated with the University of Bologna, Italy. He is Professor at the Energetics, Nuclear Engineering and Environmental Control Department of this University, a Researcher of the Italian National Institute for Physics of Matter (INFM), and a consultant to several companies and institutes in Italy and abroad.

His interest is mainly in the fundamental physics of the interaction of x-rays with matter including polarization effects and its implications for applications. He is the author of over 70 articles and several computer codes related to XRS.

He organised the European EDXRS Conference in 1998 and was the guest editor of the two recent issues of X-Ray Spectrometry that contained the proceedings of this Conference.

He organised the 5th International Topical Meeting on Industrial Radiation and Radioisotope Measurement Applications (IRRMA-V) in 2002.

He is one the guest editors of the special issue of Nuclear Instruments and Methods B (in print) containing the proceedings of that Conference.+

He is member of the Advisory Board of X-Ray Spectrometry from 2000.

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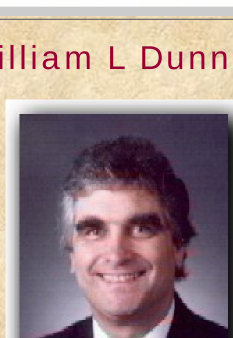
William L Dunn



I have enjoyed a career of over twenty five years in research on radiation physics and engineering. I studied in the early 1970s under Robin Gardner at North Carolina State University, where I received both M.S. and Ph.D. degrees in Nuclear Engineering.

After a stint at Carolina Power & Light Company, where, among other things, I conducted both radioactive and inert tracer flow-rate experiments at the H.B. Robinson nuclear powerplant, I moved into radiation research, first at North Carolina State University and next at Research Triangle Institute, both in North Carolina.

In 1988 I founded Quantum Research Services, Inc., a contract research firm specializing in radiation applications, and served as its president until I recently joined the faculty of the Department of Mechanical and Nuclear Engineering at Kansas State University.

In 1988 I founded Quantum Research Services, Inc., a contract research firm specializingin radiation applications, and served as its president until I recently joined the faculty of the Department of Mechanical and Nuclear Engineering at Kansas State University. My research interests include radiation detection, particle transport, dosimetry, nondestructive testing, X-ray fluorscence simulation, and modeling.

I was delighted to be invited to be a candidate for Executive Councillor of IRPS because I embrace the mission that our Society serves. It seems to me that IRPS is the only society that places primary emphasis on radiation physics, as opposed to applications, and that truly encourages international participation.

As an early member of IRPS I attended the Ferrara meeting in 1985. That experience helped convince me to stress international participation in the series of Industrial Radiation and Radioisotope Measurement Applications (IRRMA) conferences that began in 1988, in which I have been involved. I am pleased to say that initiative taken by IRPS leaders has resulted in discussions whereby IRPS and IRRMA may coordinate and support each others' future programs in a constructive and complementary way.

I now serve on the editorial board of the journal Radiation Physics and Chemistry. I am an engineer by training, a physicist by heart, and an enthusiastic candidate to serve the Society.

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Takashi Nakamura

Professor Nakamura graduated from Kyoto University, Faculty of Engineering, Department of Nuclear Engineering in March, 1964.

He then became a Research Associate with the Faculty, and gained his Ph.D. degree in 1970.

His academic career includes :

- Guest Researcher of Atomic Energy Research Institute of Sweden (1973 - 1974)
- Associate Professor of the Institute for Nuclear Study, University of Tokyo (1975)
- Professor of Cyclotron and Radioisotope Center, Tohoku University (1986)
- Guest Professor of Institute of Space and Astronautical Science (1987 - 1990
- Guest Researcher of National Institute of Radiological Sciences (1998)
- Professor of Graduate School of Engineering, Tohoku University (1999)
- President of Japan Health Physics Society (2001)

In 2001 the American Health Physics Society presented Professor Nakamura with the William C Morgan Lecturer Award.

His recent relevant publications total 34.

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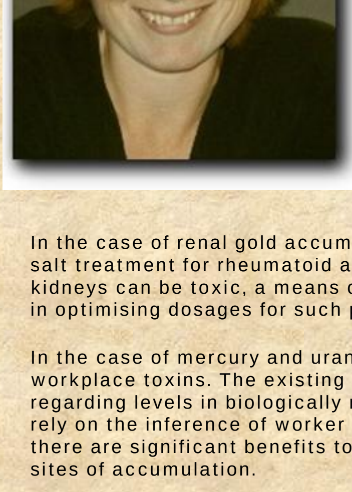

I obtained my B.Sc. in Applied Physics in 1995, and my Ph.D. in Medical Physics in 1999, both from McMaster University.

After teaching physics at Bermuda College for one semester, I joined the Laboratory for Accelerator Beam Applications at Massachusetts Institute of Technology in 2000, funded by an NSERC Postdoctoral Fellowship. In July, 2002, I started my current position as an Assistant Professor in the Department of Physics at the University of Guelph.

My research interests lie in the development of clinical methods for assessing elemental body composition in vivo. I have investigated the feasibility of measuring gold and mercury in the kidneys, and uranium in bone, with x-ray fluorescence (XRF).

In the case of renal gold accumulation, the target population is patients undergoing a gold salt treatment for rheumatoid arthritis. Since a sufficient accumulation of gold in the kidneys can be toxic, a means of non-invasive in vivo monitoring of gold content is useful in optimising dosages for such patients.

In the case of mercury and uranium, the target population is individuals exposed to these workplace toxins. The existing monitoring techniques do not provide direct information regarding levels in biologically relevant tissues/organs, rather these approaches tend to rely on the inference of worker health from measuring levels in blood and urine. Therefore, there are significant benefits to the non-invasive measurement of levels directly in the sites of accumulation.

I continue to work collaboratively with colleagues at McMaster University in the field of ***in vivo*** XRF. Furthermore, in the next few years, we will be developing an elemental analysis system based on g-ray resonance absorption, initially for use in measuring nitrogen in soft tissue. Such an approach is attractive as it is expected to result in improved sensitivity per unit patient dose, as well as providing element-specific imaging capabilities.

My contribution to such research has resulted in the design, construction and characterisation of several new measurement systems. For optimisation, it was necessary to write in-house Monte Carlo code, as well as utilise packages such as MCNP and TRIM. My research has involved the use of a 250 kV x-ray tube, various radioactive sources, the 4.1 MV, 10 kW proton/deuteron/ particle tandem and the 1.5 MV single-ended proton/**a** accelerators at MIT, as well as Ge, NaI, and thin film plastic scintillation detectors, their associated electronics, and radiochromic film.

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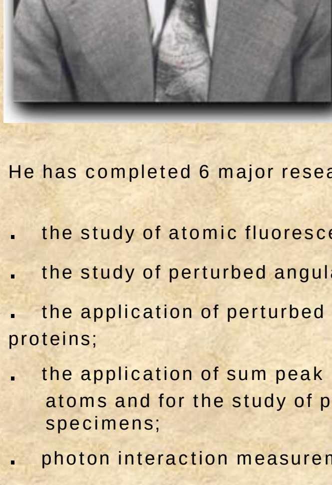
Kulwant Singh Thind



Professor Thind is with the Department of Physics at Guru Nanak Dev University, India.

His principal research interests are :

i) Application of perturbed angular correlation technique to biological substances.

ii) Applications of summing phenomenon to applied chemistry and biological substances.

iii) Interaction of photons with composite materials such as solids and liquids

iv) Preparation and characterization of glasses as Radiation shielding materials

v) Environment and radioactivity.

He has completed 6 major research projects on :

- the study of atomic fluorescence yield and electron capture probabilities;
- the study of perturbed angular correlation parameters with a single detector;
- the application of perturbed angular c orrelation spectroscopy to metal sites in proteins;
- the application of sum peak method for the study of chemical, environmental effects of atoms and for the study of perturbed angular correlation parameters in biological specimens;
- photon interaction measurements in composite materials;
- the study of attenuation of x-rays and gamma rays in solutions of some common and biologically important substances, funded by various national agencies.

Current research projects are the study of effective atomic numbers of some shielding materials by photon scattering techniques and Magnetic rotation in th A= 80 mass Region.

He has also visited the International Centre for Theoretical Physics, Triste, Italy, Nathiagali, Pakistan, KVL University Copenhagen, Denmark and Technical University of Denmark (DTU) as a visiting scientist to carry out advanced studies on projects connected with Radiation Physics.

He has published 83 research papers in Scientific journals of national and international repute and 4 books.

Statement : I am interested in seeking the office of the International Radiation Physics Society because of my keen interest for the achievements and furtherance of the objectives of the society for which the plan to work is as follows:

- To increase the membership of the Society so that base becomes wider, leading to better stability.
- I have been writing popular articles to spread awareness of hazards of radiations to occupationally exposed workers and general public. Benefits of radiations to the common man have also been penned.
- I have been engaged in active research work in the field of radiation physics for the last 24 years.
- For the academic cause, I have been holding symposia in radiation physics and related fields.
- I am collaborating on various research projects, locally and at other Indian and foreign universities, thus furthering the cause of spreading awareness of radiation physics. Collaboration with hospitals is also being pursued.

The pursuits and plans will strengthen my candidature for Executive Councillor of the Society and shall create an epicenter of various activities of the International Radiation Physics Society in this region and to the aim and objectives globally.

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