

History of the International Association for Radiation Research

Introduction

The original version of the history covering 1958 to 1978 was written by Giovanni Silini.

At the turn of the millennium, an update on the history and aims of the Association was prepared by former and current Officers of the International Association for Radiation Research, including Johan Broerse, Martin Fielden, Eric Hall, Masao Sasaki and Fiona Stewart. The motivation was the conviction that radiation research still has an essential role to play in serving the needs of society in the new millennium and that international co-operation and understanding is a vital factor.

The document was updated by Gianfranco Grossi in 2015.

The document was updated by Bruce Kimler in 2025.

The early history: 1955-1962

During the 1950's, the National Academy of Sciences - National Research Council (NAS-NRC) Subcommittee on Radiobiology continued to promote the advancement of radiation research through a series of annual workshops, and in 1955 the NAS-NRC group began to think about an international congress as a sequel to the Oberlin Symposium. The American Radiation Research Society, which held its first meeting in 1953, was invited to participate in its organisation and a Committee was constituted by the cosponsors with Alexander Hollaender as chairman and Austin Brues, Howard Curtis, Giocchino Failla, Eric Hart, Henry Kaplan, Arthur K. Solomon, and Raymond Zirkle as members.

The University of Vermont was selected as the site and August 10-16, 1958 as the time. To achieve a truly international flavour, liaison was established with a European Steering Committee that had arranged conferences in radiobiology at Aarhus (1953), Liege (1954), Cambridge (1955), and Stockholm (1956). The Organising Committee designated Alexander Hollaender (USA) President, Joseph Mitchell (Great Britain) Vice-President, and Harvey Patt (USA) Secretary-General of what was to become the *First International Congress of Radiation Research*. The Honorary President was George de Hevesy (Sweden) and there was an impressive array of Honorary Vice-Presidents: Detlev Bronk (USA), Hermann Holthusen (Germany), Antoine Lacassagne (France), Samuel C. Lind (USA), Hermann Muller (USA), Rolf Sievert (Sweden), Frederick Spear (Great Britain), and Masao Tsuzuki (Japan).

The First International Congress of Radiation Research attracted 627 full members and 214 associate members. A varied programme of symposia and proffered papers in each

of the four disciplines of physics, chemistry, biology and medicine, was presented. The seven symposia were later published as Supplement No. 1 to the journal, *Radiation Research*, in 1959, under the editorship of Douglas Smith and entitled *Proceedings of the International Congress of Radiation Research*.

In connection with this First Congress, some of the participants proposed the organisation of further International Congresses. In order to facilitate this task a small informal Committee of 12 persons (the Burlington Committee), with George de Hevesy as Chairman and Arne Forssberg as Secretary, was therefore set up. Since only a limited number of people took part in the Burlington Congress, it was proposed by the members of this group to set up another elected body called the 'Executive Committee' having a wider representation. More than 300 persons with experience in radiation physics, chemistry and biology were therefore identified and asked to vote on the composition of the Committee made by a Chairman, a Secretary and two members for each of the following fields: radiation physics, radiation chemistry, radiation biology and science in general. Names were put on ballot and in October 1959 the resulting composition of the Executive Committee was as follows:

Executive Committee 1959-1962:

Chairman	George de Hevesy (Stockholm, Sweden)
Secretary	Arne Forssberg (Stockholm, Sweden)
Members for radiation physics	L. Harold Gray (Northwood, England) Karl G. Zimmer (Karlsruhe, Germany)
Members for radiation chemistry	Peter Alexander (London, England) Lorentz Eldjarn (Oslo, Norway)
Members for radiation biology	Alexander Hollaender (Oak Ridge, USA) Raymond Latarjet (Paris, France)
Members for science in general	Austin M. Brues (Argonne, USA) Joseph S. Mitchell (Cambridge, England)

The most immediate task of the Committee was to promote the *Second International Congress of Radiation Research* in 1962. Strong efforts were made to involve the Russian radiation research community in the association and it was proposed that the second congress be held in Russia. In the event this did not prove possible; England was chosen as the host country.

The Committee worked for the establishment of a more permanent organisation of radiation research to be set up on the occasion of this Congress, which was held in Harrogate (England) on August 5-11, 1962 (Chairman: Hal Gray, Vice-Chairman: Frederick S. Dainton, Secretary: Alma Howard, Treasurer: C.L. Smith). This Second Congress was attended by 1153 full members and 139 associate members. The rapporteur method of presentation was used for the proffered papers for the first time in this field. The rapporteur reports were published under the editorship of Michael Ebert and Alma Howard in a book entitled *Radiation Effects in Physics, Chemistry and Biology*, 1963.

A document with a proposal for an international organisation of Radiation Research was reviewed by some members of the Executive Committee during the course of the Harrogate Congress and widely circulated to form the basis for a discussion on the establishment of such an organisation during a meeting held on August 9 1962. In the course of this constitutional assembly, an Association was founded as a permanent structure to represent Radiation Research internationally. Founding members of the IARR were the British Association for Radiation Research, the Radiation Research Society of the USA, the Japan Radiation Research Society and the European Society for Radiation Biology.

The first Council: 1962-1966

The President, Secretary and four Councillors to represent various areas of research were elected at Harrogate. The representative of the member societies were nominated by May 1963 and four Councillors at large were later elected by mail ballot to represent geographic areas where formal scientific organisations of a similar type were not yet established. By July 1963 the composition of the Council was as follows:

IARR Council 1963-1966

- Elected Members

President	Alexander Hollaender (Oak Ridge, USA)
Secretary	Giovanni E. Magni (Paviá, Italy)
Councillor for Physics	Karl G. Zimmer (Karlsruhe, Germany)
Councillor for Chemistry	Frederick S. Dainton (Leeds, England)
Councillor for Biology	A.M. Kuzin (Moscow, USSR)
Councillor for Medicine	Anders Nelson (Sundbyberg, Sweden)
Councillor At Large I	Luiz R. Caldas (Rio de Janeiro, Brazil)
Councillor At Large II	Anekel R. Gopal-Ayengar (Bombay, India)
Councillor At Large III	Ferdinand Hercik (Brno, Czechoslovakia)
Councillor At Large IV	Hendrik A.S. van den Brenk (Melbourne, Australia)

- Representatives appointed by the founding Societies

Association for Radiation Research	John F. Loutit (Harwell, England)
European Society for Radiation Biology	Zenon M. Bacq (Liège, Belgium)
Japan Radiation Research Society	Kempo Tsukamoto (Chiba, Japan)
Radiation Research Society	Harvey M. Patt (Argonne, USA)

The new Council was charged with the preparation of the Association's Constitution. This document was reviewed repeatedly in the course of 1963, approved finally by Council in April 1964 and by the four founding societies in July of the same year (see Appendix I).

In the meantime, the organisation of the *Third International Congress of Radiation Research* was proceeding. Following an invitation from Italy, the Council approved in July 1963 that the Congress should be held in Cortina on June 26 - July 2, 1966 and elected A.A. Buzzati-Traverso as President of the Congress. The Italian Organising

Committee later appointed Giovanni Silini as Secretary-General and Amleto Castellani as Treasurer of the Congress. This Third Congress was attended by approximately 1100 full members and 200 associate members, and a broad spectrum of papers, organised in the traditional fashion of symposia and proffered papers, was held. The symposia, now twelve in number, were published as *Radiation Research*, edited by Giovanni Silini in 1967.

During this term the membership of the Association increased to include two other Societies. The Netherlands Radiobiological Society, founded in July 1960, was admitted in April 1965. A Radiobiology Club, which had previously been operating in Sweden, formed itself into the Swedish Radiobiological Society in April 1965 and was accepted by the Council in October 1965.

The second Council: 1966-1970

The General Assembly in Cortina was the first at which delegates from the various member organisations were present and elected the new Council, according to the recently established Constitution. The composition of the Second Council was as follows:

IARR Council 1966-1970

- Elected Members

Honorary President	Alexander Hollaender (Oak Ridge, USA)
President	Frederik H. Sobels (Leiden, Netherlands)
Vice-President	John (Jack) W. Boag (Sutton, England)
Secretary-Treasurer	Richard F. Kimball (Oak Ridge, USA)
Councillor for Physics	Karl G. Zimmer (Karlsruhe, Germany)
Councillor for Chemistry	Aron Kuppermann (Pasadena, USA)
Councillor for Biology	H. John Evans (Harwell, England)
Councillor for Medicine	Finn Devik (Oslo, Norway)
Councillor At Large I	Raymond Latarjet (Paris, France)
Councillor At Large II	Giovanni Silini (Rome, Italy)
Councillor At Large III	Warren K. Sinclair (Argonne, USA)

- Representatives appointed by organisations which have more than 100 active members

Association for Radiation Research	Tikvah Alper (London, England)
European Society for Radiation Biology	Zdeněk Dienstbier (Prague, Czechoslovakia)
Japan Radiation Research Society	Kempo Tsukamoto Chiba, Japan
Netherlands Radiobiological Society	Dirk vanBekkum (Rijswijk, Netherlands)
Radiation Research Society	Hymer L. Friedell (Cleveland, USA)
Swedish Radiobiological Society	Arne Forsberg (Stockholm, Sweden)

The first meeting of the new Council took place on July 1, 1966 at Cortina. On this occasion Alexander Hollaender was appointed as Honorary President of the IARR, in recognition of his important role in founding the Association. The Council accepted an invitation to hold the 1970 Radiation Research Congress in France and discussed the

affiliation of the IARR with other International Organisations, such as the International Union of Biological Sciences (IUBS) and the International Union of Pure and Applied Biophysics (IUPAB).

A second meeting of the Council was held on June 4, 1968 at Interlaken, during which the final arrangements for the *Fourth International Congress of Radiation Research* were approved. This event took place in Evian on June 29 - July 4, 1970 (Raymond Latarjet, President; Jean F. Duplan, Secretary-General; and Marcel Frilley, Treasurer). The Congress attracted a total membership of between 1500 and 1600, and the 195 papers included in symposium sessions were published under the title *Advances in Radiation Research* edited by Jean F. Duplan and Adolphe Chapiro in 1973, in five volumes: two in physics and chemistry and three in biology and medicine. The Council voted to accept a preliminary invitation of the Radiation Research Society to hold the 1974 Congress in the United States. The admission of the IARR as Section for Radiation Biology of the IUBS was finally ratified. The application for membership of the Polish Association for Radiation Research, the first Scientific Society from the Eastern European countries, was also affirmed in June 1970.

The third Council: 1970-1974

The second General Assembly of the IARR took place on July 2, 1970 at Evian. The new Officers and Members of Council elected on that occasion were:

IARR Council 1970-1974:

- Elected Members

Honorary President	Alexander Hollaender (Oak Ridge, USA)
President	John (Jack) W. Boag (Sutton, England)
Vice-President	Henry S. Kaplan (Stanford, USA)
Secretary-Treasurer	Dirk W. van Bekkum (Rijswijk, Netherlands)
Councillor for Physics	Richard B. Setlow (Oak Ridge, USA)
Councillor for Chemistry	Michael Ebert (Manchester, England)
Councillor for Biology	Yataro Tazima (Shizuoka, Japan)
Councillor for Medicine	Jean F. Duplan (Paris, France)
Councillor At Large	Mankombu S. Swaminathan (New Delhi, India)
Councillor At Large	Boris N. Tarusov (Moscow, USSR)
Councillor At Large	Gordon F. Whitmore (Toronto, Canada)

Representatives:

Association for Radiation Research	Tikvah Alper (London, England)
European Society for Radiation Biology	Zdeněk Dienstbier (Prague, Czechoslovakia)
Japan Radiation Research Society	Keisuke Misono (Chiba, Japan)
Netherlands Radiobiology Society	Otto Vos (Rijswijk, Netherlands)
Polish Association for Radiation Research	Jerzy Kroh (Lodz, Poland)
Radiation Research Society	Charles L. Dunham (Washington, USA)
Swedish Radiobiological Society	Anders Nilsson (Sundbyberg, Sweden)

The Council approved, during its first meeting on July 4, 1970 in Evian, the details of the preparations for the Fifth International Congress held in Seattle (USA) on July 14-20, 1974 (Victor Bond, President; John Magee, Vice-President; Warren Sinclair, Secretary-General). This Congress had a total of 1724 members (1455 full and student) from no less than 36 countries. The programme followed a traditional pattern of plenary, symposia and proffered papers (984 in all) and it extended in scope beyond the normal borders of radiation research to encompass related problems in closely allied fields. The six plenary sessions, twenty-four symposia and two special lectures were published in a volume entitled *Radiation Research, Biomedical, Chemical and Physical Perspectives* by Oddvar Nygaard, Howard Adler and Warren Sinclair in 1975.

The revision of the IARR Constitution was among the most important tasks carried out by the new Council. Although the Association had been administered successfully for ten years according to the first Constitution, it was recognised that certain modifications of this document were desirable to render it more suitable to the needs of an expanding society. President Jack Boag and its Council undertook the heavy duty to revise the Constitution in conjunction with various representatives of the member societies. The new text was submitted for a final discussion and approved by the 1974 General Assembly. The Association operated for decades on the basis of this new Constitution.

Two more groups enlarged the membership of the Association during this time. The Section on Radiation Biophysics of the Deutsche Gesellschaft für Biophysik and the Working Group for Radiation Biology of the Deutschen Röntgengesellschaft submitted an application for membership in the IARR to represent jointly Radiation Research in Germany. The admission of the two groups was accepted by Council in May 1974.

The fourth Council: 1974-1979

The third General Assembly was held at Seattle on July 16, 1974 on the occasion of the Fifth International Congress of Radiation Research. It was mainly devoted to the discussion and approval of the new Constitution. The following members of the Council were elected among those proposed by a nominating committee:

IARR Council 1974-1979:

President	Henry S. Kaplan (Stanford, USA)
Honorary President	Alexander Hollaender (Oak Ridge, USA)
Vice-President	Dirk W. van Bekkum (Rijswijk, Netherlands)
Secretary-Treasurer	Giovanni Silini (Rome, Italy)
Councillors: Physics	Tor Brustad (Oslo, Norway)
Chemistry	John H. Baxendale (Manchester, England)
Biology	Gerrit W. Barendsen (Rijswijk, Netherlands)
Medicine	Robert F. Kallman (Stanford, USA)
At-large	Ged E. Adams (Northwood, England)
	R.J. Michael Fry (Argonne, USA)
	Keisuke Misono (Chiba, Japan)

Representatives:

Association for Radiation Research	Allen Tallentire (Manchester, England)
European Society for Radiation Biology	Marcello Quintiliani (Rome, Italy)
Japan Radiation Research Society	Hiromichi Matsudaira (Chiba, Japan)
Joint German Groups	Christian Streffer (Freiburg, Germany)
Netherlands Radiobiological Society	Luke M. van Putten (Rijswijk, Netherlands)
Polish Association for Radiation Research	Jerzy Kroh (Lodz, Poland)
Radiation Research Society	Charles L. Dunham (Washington, USA)
Swedish Radiobiological Society	Anders Nilsson (Sundbyberg, Sweden)

The first meeting of the new Council (Seattle, July 14, 1974) approved the invitation by the Japanese Radiation Research Society to host the Sixth International Congress in that country. During the second Council meeting (Amsterdam, September 18, 1976) the membership of the Association increased further to include the Radiation Research Society of Israel, founded in 1976 and the newly-formed Société Belge de Radiobiologie. The Japanese representation within the Association was also increased with the admission of a new Japanese Association of Radiation Research in place of the former Japan Radiation Research Society.

The Sixth International Congress of Radiation Research took place in Tokyo from May 13-19, 1979 (Keisuke Misono, President, Seizo Okamura and Yataro Tazima, Vice-Presidents and Shigefumi Okada, Secretary-General). A total of 1268 scientists attended the Congress. The proceedings became available within six months after the congress with Shigefumi Okada, Masashi Imamura, Toyozo Terasima and Hiroshi Yamaguchi as editors.

The fifth Council: 1979-1983

During the week of the congress the council of the IARR met twice. The General Assembly was held on May 16, 1979. During the assembly a change of bylaw no. 1 on the annual contribution from adhering organisations was changed and new bylaws no. 8 and 9 were ratified. From the list of nominees, the following colleagues were elected to the new council for the positions specified:

IARR Council 1979-1983:

President	Dirk W. van Bakkum (Rijswijk, The Netherlands)
Vice-President	Arthur C. Upton (New York City, USA)
Secretary-Treasurer	Jean F. Duplan (Paris, France)
Councillors	
Physics	Gerald (Ged) E. Adams (Northwood, England)
Chemistry	Arnim Henglein (Germany)
Biology	Allen Tallentire (Manchester, England)
Medicine	Maurice Tubiana (Villejuif, France)
At-large	Shigefumi Okada (Tokyo, Japan)
	Mortimer M. Elkind (Argonne, USA)
	John F. Fowler (Northwood, England)

The councillors representing the member societies for the coming period were:

Association for Radiation Research	E. Martin Fielden (Didcot, England)
European Society for Radiation Biology	Ludwig E. Feinendegen (Julich, Germany)
Japanese Association for Radiation Research	K. Oshima (Japan)
Joint German Groups	Horst Jung (Hamburg, Germany)
Netherlands Radiobiological Society	Jan A.G. Davids (Utrecht, The Netherlands)
Polish Association for Radiation Research	Jerzy Kroh (Lodz, Poland)
Radiation Research Society	Warren K. Sinclair (Washington, USA)
Swedish Radiobiological Society	Anders Nilsson (Sundbyberg, Sweden)

The outgoing president informed the assembly that the council had accepted the invitation from the Netherlands Radiobiological Society to host the 7th ICRR at Amsterdam.

At the last council meeting at Tokyo it was recommended that the organising committee of the forthcoming congresses of the IARR be chosen six years ahead instead of four years to facilitate its task. The interim meeting of the IARR council was held on June 28, 1981 at the beginning of the Fifteenth International Congress of Radiology at Brussels. During this meeting the council decided that the Association for Radiation Research would organise the Eighth ICRR in the United Kingdom.

The Seventh International Congress of Radiation Research was held at Amsterdam from July 3-8, 1983 (Jan A.G. Davids, President, Klaas Breur and Frederik H. Sobels, Vice-Presidents and Johan J. Broerse, Secretary-General). A total of 1255 scientists attended the congress. One of the highlights of the congress was a reception offered by the Queen of the Netherlands to an international delegation of congress participants. The proceedings were published within four months after the congress with Johan Broerse, Gerrit Barendsen, Henk Kal and Bert van der Kogel as editors.

The sixth Council: 1983-1987

The fifth council met during the Amsterdam congress on July 3, 1983. The General Assembly took place on July 7, at which new bylaw 10 was ratified, and the Council in its new composition convened on July 8. From the list of nominees the following colleagues were elected to the new council for the positions specified:

IARR Council 1983-1987:

President	Arthur C. Upton (New York City, USA)
Vice-President	Gerald (Ged) E. Adams ((Didcot, England)
Secretary-Treasurer	Johan J. Broerse (Leiden, The Netherlands)
Councillors	Physics Albrecht M. Kellerer (Munich, Germany)
	Chemistry Masashi Imamura (Wako, Japan)

Biology	Eric J. Hall (New York City, USA)
Medicine	Herman Suit (Boston, USA)
At-large	Barry D. Michael (Northwood, England)
	Gunnar Walinder (Uppsala, Sweden)
	Jerzy Kroh (Lodz, Poland)

The following councillors represented the member societies for the new period:

Association for Radiation Research	E. Martin Fielden (Didcot, England)
European Society for Radiation Biology	Jean R. Maisin (Liege, Belgium)
Japanese Association for Radiation Research	Toshiyuki Kumatori (Japan)
Joint German Groups	Ulrich Hagen (Neuherberg, Germany)
Joint Italian Group	Lucia Tallone-Lombardi (Milan, Italy)
Netherlands Radiobiological Society	Antonius W.T. Konings (Groningen, The Netherlands)
Polish Association for Radiation Research	Andrej Plonka (Lodz, Poland)
Radiation Research Society	Mortimer M. Elkind (Argonne, USA)

During the second council meeting on Friday, July 8, 1983, M. Elkind suggested that the IARR establish the H.S. Kaplan Distinguished Scientist Award.

The interim council meeting was held on September 6, 1985, at Harwell UK. Four countries had submitted invitations to host the 9th ICRR. After ample consideration, Toronto was chosen as the venue for the 1991 congress. The Kaplan medal and prize was established during the interim meeting. India (ISRAP) was admitted to the IARR in 1985. In the spring of 1987, the application of the China Committee for Radiation Research for full membership of the IARR was circulated among the council members. This application was unanimously accepted.

The Eighth International Congress of Radiation Research took place at Edinburgh from July 19-24, 1987 (Ged Adams, President, Sir Alastair Currie and Sir Frederick Dainton, Vice-Presidents and Martin Fielden, Secretary-General). A total number of 1350 delegates from 37 countries attended the congress. M.M. Elkind was the first recipient of the Henry S. Kaplan Award. The proceedings, under the joint editorship of Martin Fielden, Jack F. Fowler, Jolyon Hendry and D. Scott, were published as two hardback volumes, vol. 1 contained the abstracts of all presentations and was available at the Congress while vol. 2 contained the invited papers and was published in November 1987. Subsequent Congresses have adopted this same format for their proceedings.

The seventh Council: 1987-1991

The sixth council met during the Edinburgh congress on July 19, 1987 and the general assembly took place on July 23. From the list of nominees the following colleagues were elected to the new council for the positions specified.

IARR Council 1987-1991:

President	Ged E. Adams (Didcot, England)
Vice-President	Gordon F. Whitmore (Toronto, Canada)
Secretary-Treasurer	Johan J Broerse (Leiden, The Netherlands)
Councillors	Physics Herwig G. Paretzke (Neuherberg, Germany)
	Chemistry Shigefumi Okada (Tokyo, Japan)
	Biology Julie Denekamp (Northwood, England)
	Medicine Lester J. Peters (Houston, USA)
	At-large Laszlo B. Sztanyik (Budapest, Hungary)
	Kiyohiko Sakamoto (Sendai, Japan)
	J. Martin Brown (Palo Alto USA)

The following councillors were appointed by member societies having 100 or more active members:

Association for Radiation Research	E. Martin Fielden (Didcot, England)
China Committee for Radiation Research	Xun Shen (China)
European Society for Radiation Biology	Jean R Maisin (Bruxelles, Belgium)
Japanese Association for Radiation Research	Hiroshi Tanooka (Tokyo, Japan)
Joint German Groups	Dietrich Schulte-Frohlinde (Mülheim an der Ruhr, Germany)
Joint Italian Group	Lucia Tallone-Lombardi (Milan, Italy)
Netherlands Radiobiological Society	Henk B. Kal (Rotterdam, The Netherlands)
Polish Association for Radiation Research	Jerzy Kroh (Lodz, Poland)
Radiation Research Society	H. Rodney Withers (Los Angeles, USA)
Swedish Radiobiological Society	Gunnar Walinder (Uppsala, Sweden)

The interim council meeting was held on May 27, 1989 at Rome. The council had already received an offer of the German colleagues to host the 10th ICRR in Würzburg, Federal Republic of Germany, in connection with the centennial of Röntgen's discovery of X-rays. The council unanimously accepted the invitation. In view of all the commitments of the IARR, the council decided that its annual fee would be raised to 3. US dollars per member of each National Society as per January 1, 1990. An application for membership of the IARR by the Australian Institute of Nuclear Science and Engineering (AINSE) was enthusiastically accepted by the council

The Ninth International Congress of Radiation Research took place in Toronto from 7-12, July 1991 (Gordon Whitmore, President, John Ward, Vice-President and Don Chapman, Secretary-General).

The meeting had a total attendance of 1774 individuals, including the North American Hyperthermia Group, which made it the largest ICRR up to that time.

H. Rodney Withers was the second recipient of the Henry S. Kaplan award. The proceedings were published under the editorship of Bill Dewey, Martha Edington, Michael Fry, Eric Hall, and Gordon Whitmore.

The eighth Council: 1991-1995

A number of German societies active in the areas of biophysics, medical physics and radiation protection pooled their radiation research interests and established the German Association for Radiation Research (GAST). The membership of GAST in the IARR as the successor of the joint German groups was unanimously accepted by the council as of January 1991. The old council met on July 6, 1991 at Toronto, the general assembly took place on July 11, 1991 and the new (eighth) council met on July 12, 1991. From the list of candidates prepared by the nomination committee the following council was elected

IARR Council 1991-1995:

President	Gordon F. Whitmore (Toronto, Canada)
Vice-President	Johan J. Broerse (Leiden, The Netherlands)
Secretary-Treasurer	E. Martin Fielden (Didcot, England)
Councillors	Physics Herwig G. Paretzke (Neuherberg, Germany)
	Chemistry Yoshihiko Hatano (Tokyo, Japan)
	Biology Eric J. Hall (New York City, USA)
	Medicine Jens Overgaard (Aarhus, Denmark)
	At-large Christian Streffer (Essen, Germany)
	R.J. Michael Fry (Oak Ridge, USA)
	Hiraku Takebe (Kyoto, Japan)

The council was extended with councillors appointed by member societies having 100 or more active members:

Association for Radiation Research	Jolyon H. Hendry (Manchester, England)
Australian Institute of Nuclear Science	Ron Cooper (Lucas Heights, Australia)
China Committee for Radiation Research	Ge Zhong-Liang (China)
European Society for Radiation Biology	Emanuel Riklis (Beer-Sheva, Israel)
German Association Radiation Research	Herwig G. Paretzke (Neuherberg, Germany)
Japanese Association for Radiation Research	Akihiro Shima (Japan)
Joint Italian Group	Lucia Tallone-Lombardi (Milan, Italy)
Netherlands Radiobiological Society	Henk B. Kal (Rotterdam, The Netherlands)
Polish Association for Radiation Research	Jerzy Kroh (Lodz, Poland)
Radiation Research Society	John D. Zimbrick (West Lafayette, USA)
Swedish Radiation Research Society	Margareta Edgren

(Stockholm, Sweden)

In 1992 applications for membership in the IARR were received from Ireland and South Africa. These applications were processed and accepted unanimously by the council during its interim meeting held at Dallas on March 25, 1993. The Irish Association for Radiation Research, having 105 active members, appointed Carmel Mothersill as council member of the international association. Four countries had offered to host the 11th ICRR in 1999. An absolute majority of council members were in favour of the proposal from Ireland.

The Tenth International Congress of Radiation Research took place at Würzburg from August 27 to September 1, 1995 (Ulrich Hagen, President, Ludwig Feinendegen and Dietrich Schulte-Frohlinde, Vice Presidents and Christian Streffer, Secretary General). The congress was opened by a lecture on Röntgen's discovery of X-rays. Approximately 1500 scientists attended the congress. Ged Adams was the third recipient of the Henry S. Kaplan-Award. The congress proceedings were published under the joint editorship of Ulrich Hagen, Dietrich Harder, Horst Jung and Christian Streffer.

The ninth Council: 1995-1999

The old council met on August 27, 1995 at Würzburg, the General Assembly took place on August 29, 1995 at which new bylaws 11 and 12 were ratified. The new (ninth) council met on August 31, 1995 at the Würzburg University Campus. From the list of candidates prepared by the nomination committee the following council was elected

IARR Council 1995-1999:

President	Johan J. Broerse (Leiden, The Netherlands)
Vice-President	Eric J. Hall (New York City, USA)
Secretary-Treasurer	E. Martin Fielden (Didcot, England)
Councillors	Physics Dudley Goodhead (Oxfordshire, England)
	Chemistry Peter Wardman (Northwood, England)
	Biology Marlis Frankenberg-Schwager (Göttingen, Germany)
	Medicine Jack B. Little (Boston, USA)
	At-large Mario Coppola (Rome, Italy)
	Masao Sasaki (Japan)
	Roger F. Martin (Melbourne, Australia)

Councillors appointed by member societies having 100 or more active members:

Association for Radiation Research	Peter Bryant (St. Andrews, England)
Australian Institute of Nuclear Science	Ron Cooper (Lucas Heights, Australia)
China Committee for Radiation Research	Ge Zhong-Liang (China)
European Society for Radiation Biology	John Hopewell (Headington, England)
German Association Rad. Research	Jurgen Narrog (Germany)
Indian ISRAPS	Jai Pal Mittal (Mumbai, India)

Irish Radiation Research Society	Carmel Mothersill (Dublin, Ireland)
Japanese Association for Radiation Research	Akihiro Shima (Japan)
Joint Italian Group	Gianfranco Grossi (Naples, Italy)
Netherlands Radiobiological Society	Henk B. Kal (Rotterdam, The Netherlands)
Polish Association for Radiation Research	Krzysztof Chomiczewski (Warsaw, Poland)
Radiation Research Society	John D. Zimbrick (West Lafayette, USA)
Swedish Radiation Research Society	Margareta Edgren (Stockholm, Sweden)

The interim council meeting was held after the meeting of the European Society for Radiobiology in Oxford on September 27, 1997. Proposals and presentations were put forward by colleagues on behalf of five member societies. The proposal from Australia received a majority of the votes cast and the 12th ICRR in 2003 is to be held in Brisbane.

The Eleventh International Congress of Radiation Research was held at Dublin from July 23-28, 1999 (Michael J. Moriarty, President, David G. Hirst, Vice-President and Colin Seymour, Secretary General). Jack Little was the fourth recipient of the H.S. Kaplan Award. The congress attracted an audience of approximately 1200 scientists. The proceedings were published under the joint editorship of Michael Moriarty, Carmel Mothersill, Colin Seymour, Martha Edington, John Ward and R.J. Michael Fry.

The tenth Council: 1999-2003

The old council met on July 18, 1999 at Dublin, the general assembly took place on July 20, 1999 and the new (tenth) council met on July 22, 1999.

From the list of candidates, the following council was elected.

IARR Council 1999-2003:

President	Eric J. Hall (New York City, USA)
Vice-President	Masao Sasaki (Hiroshima, Japan)
Secretary-Treasurer	Fiona A. Stewart (Amsterdam, The Netherlands)
Councillors	Physics Albrecht Kellerer (Munich, Germany)
	Chemistry John D. Zimbrick (West Lafayette, USA)
	Biology J. Martin Brown (Palo Alto, USA)
	Medicine M. Maciejewski (Poland)
	At-large Mats Harms-Ringdahl (Stockholm, Sweden)
	Elizabeth L. Travis (Houston, USA)
	Ekkehard Dikomey (Hamburg, Germany)

Councillors appointed by member societies having 100 or more active members:

Association for Radiation Research	Peter O'Neill (Didcot, England)
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Australian Institute of Nuclear Science	Roger F. Martin (Melbourne, Australia)
China Committee for Radiation Research	Zi Qiang Pan (Beijing, China)
European Society for Radiation Biology	John Hopewell (Headington, England)
German National Association of Radiation Research Societies	Horst Jung (Germany)
Indian Society for Radiation and Photochemical Sciences	Jai Pal Mittal (Mumbai, India)
Irish Radiation Research Society	Carmel Mothersill (Dublin, Ireland)
Japanese Association for Radiation Research	Ohtsura Niwa (Chiba, Japan)
Joint Italian Groups	Gianfranco Grossi (Naples, Italy)
Netherlands Radiobiological Society	Henk B. Kal (Rotterdam, The Netherlands)
Polish Radiation Research Society formerly Polish Association for Radiation Research	Krzysztof Chomiczewski (Warsaw, Poland)
Radiation Research Society	John Ward (La Jolla, U.S.A.)
Swedish Radiation Research Society	Jorgen Carlsson (Uppsala, Sweden)

The interim Council meeting was held during the annual meeting of the Radiation Research Society in San Juan, Puerto Rico in May 2001. Two proposals to host ICRR 2007 had been received from Japan and USA. The proposal from USA received a majority of the votes cast and the 13th ICRR in 2007 is to be held in San Francisco.

The Twelfth International Congress of Radiation Research was held at Brisbane August 17 – 22, 2003 (Lester Peters, President; Roger Martin, Secretary General; Dennis Mather, Treasurer, and Martin Lavin, Chairman). Eric Hall was the fifth recipient of the Henry S. Kaplan Award. The Congress attracted an audience of approximately 1100 scientists from 39 countries. During the Congress the old Council met on August 17, 2003.

The eleventh Council: 2003-2007

The General Assembly took place during the Brisbane Congress on August 20, 2003 and the new (eleventh) Council met on August 21, 2003.

From the list of candidates the following Council was elected:

IARR Council 2003-2007

President	Masao Sasaki (Hiroshima, Japan)
Vice-President	Peggy Olive (Vancouver, Canada)
Secretary-Treasurer	Fiona A. Stewart (Amsterdam, The Netherlands)
Councillors	Physics Roberto Cherubini (Legnaro, Italy)
	Chemistry Melanie Spothem-Maurizot (Orléans, France)
	Biology Kevin Prise (Middlesex, UK)
	Medicine Michael Baumann (Dresden, Germany)

At-large Ohtsura Niwa (Chiba, Japan)
 Ian Stratford (Manchester, UK)
 Jai Pal Mittal (Mumbai, India)

Councillors appointed by member societies having 100 or more active members:

Association for Radiation Research	Trevor McMillan (Lancaster, UK)
Australian Institute of Nuclear Science	Roger F. Martin (Melbourne, Australia)
China Committee for Radiation Research	Ziqiang Pan (Beijing, China)
European Society for Radiation Biology	Wolfgang Doerr (Dresden, Germany) 2003-2004
Changed to European Radiation Research Society in 2005	Gianfranco Grossi (Naples, Italy) 2005-2006
German National Association of Radiation Research Societies	Jurgen Kiefer (Wettenberg, Germany)
Indian Society for Radiation and Photochemical Sciences	Kaushala Prasad Mishra (Allahabad, India)
Irish Radiation Research Society	Stephanie McKeown (Londonderry, Northern Ireland)
Japanese Association for Radiation Research	Takeo Ohnishi (Nara, Japan)
Joint Italian Groups	Giustina Simone (Rome, Italy)
Netherlands Radiobiological Society	Jan Wondergem (Leiden, The Netherlands)
Polish Radiation Research Society	Antonina Cebulska-Wasilewska (Cracow, Poland)
Radiation Research Society	Kathryn D. Held (Harvard, USA)
Swedish Radiation Research Society	Synnove Sundell-Bergman (Stockholm, Sweden)

The interim Council meeting was held during the meeting of the annual meeting of the Radiation Research Society in Denver on October 19, 2005. Proposals and presentations were put forward by colleagues on behalf of two member Societies, the Polish Radiation Research Society and the Japanese Association of Radiation Research. The proposal from Poland received a majority of the votes cast and the 14th ICRR in 2011 is to be held from 28 August to 1 September 2011 in Warsaw.

The Thirteenth International Congress of Radiation Research was held at San Francisco July 8-12, 2007 (Ted Phillips, President; Bill Bernhard, Treasurer; Martin Brown, Secretary General, and Liz Travis chaired the Scientific Program Committee). Martin Brown was the sixth recipient of the Henry S. Kaplan Award. The Congress attracted an audience of approximately 1300 scientists. All sessions except the workshops were audio recorded and CDs of these sessions were available for purchase.

During the Congress the old Council met on July 8, 2007. During this meeting the Council processed and accepted unanimously the Korean Association for Radiation Research application for membership in the IARR as of January 2007.

The twelfth Council: 2007-2011

The General Assembly took place during the San Francisco Congress on July 9, 2007 and the new (twelfth) Council met on July 11, 2007.

From the list of candidates the following Council was elected:

IARR Council 2007-2011

President	Peggy Olive (Vancouver, Canada) 2007-2009
	Ohtsura Niwa (Chiba, Japan) 2010-2011
Vice-President	Ohtsura Niwa (Chiba, Japan) (2007-2010)
Secretary-Treasurer	Gianfranco Grossi (Naples, Italy)
Councillors	Physics Kazimierz Jelen (Cracow, Poland)
	Chemistry Peter Dedon (Cambridge, USA)
	Biology Michael Joiner (Detroit, USA)
	Medicine Koji Ono (Osaka, Japan)
	At-large Marie-Catherine Vozenin-Brotans (Villejuif, France)
	Kaushala Prasad Mishra (Mumbai, India)
	Gisela Taucher-Scholz (Darmstadt, Germany)

Councillors appointed by member societies having 100 or more active members:

Asian Association for Radiation Research (from 2010)	Polat Kazymbet (Astana, Republic of Kazakhstan)
Association for Radiation Research	George Don Jones (Leicester, England)
Australian Institute of Nuclear Science	Roger F. Martin (Melbourne, Australia)
China Committee for Radiation Research	Ziqiang Pan (Beijing, China)
Dutch Society for Radiobiology formerly Netherlands Radiobiological Society	Peter Sminia (Amsterdam, The Netherlands)
European Radiation Research Society	Geza Safrany (Budapest, Hungary) 2007 -2008 Mohi Rezvani (Reading, England) 2009-2011
German National Association of Radiation Research Societies	Herwig G. Paretzke (Neuherberg, Germany)
Indian Society for Radiation and Photochemical Sciences	Tulsi Mukherjee (Trombay, India)
Irish Radiation Research Society	Stephanie McKeown (Londonderry, UK) 2007-2009 Fiona Lyng (Dublin, Ireland) 2010-2011
Italian Society for Radiation Research formerly Joint Italian Groups, until 2008	Giustina Simone (Rome, Italy)
Japanese Association for Radiation Research	Takeo Ohnishi (Nara, Japan)
Korean Association for Radiation Research	Eun Kyung Choi

Polish Radiation Research Society	(Seoul, Republic of Korea)
Radiation Research Society	Antonina Cebulska-Wasilewska (Cracow, Poland)
Swedish Radiation Research Society	David Murray (Edmonton, Canada)
	Synnöve Sundell-Bergman (Stockholm, Sweden)

The interim Council meeting was held in Seoul during the Second Asian Congress of Radiation Research. During the meeting on May 18, 2009 a proposal from the Japanese Association for Radiation Research to host the 2015 International Congress of Radiation Research in Kyoto was presented and accepted unanimously. The 15th ICRR will be held in the end of May 2015 in Kyoto. Because the Italian Association for Radiation Biology decided to leave the Italian Joint Groups, the radiation research in Italy will be represented by the Italian Society for Radiation Research. The Asian Association for Radiation Research (AARR) was admitted as a new member society of the IARR.

The Fourteenth International Congress of Radiation Research was held at Warsaw from August 28 to September 1, 2011 (Antonina Cebulska-Wasilewska, President; Anna Lankoff, Treasurer; Marek K. Janiak, Chair of the Organizing Committee, and Andrzej Wojcik, Chair of the Scientific Program Committee). Richard (Dick) Hill was the seventh recipient of the Henry S. Kaplan Award. The Congress attracted an audience of approximately 1100 scientists.

The thirteenth Council: 2011-2015

The General Assembly took place during the Warsaw congress on August 30, 2011 and the new (thirteenth) Council met on September 1, 2011. During this meeting the Council voted the membership termination of the Indian Society of Radiation and Photochemical Sciences, for the fees not paid from three consecutive years.

From the list of candidates the following Council was elected:

IARR Council 2011-2015

President	Marco Durante (Darmstadt, Germany)	
Vice-President	Mary-Helen Barcellos-Hoff (New York, USA)	
Secretary-Treasurer	Gianfranco Grossi (Naples, Italy)	
Councillors	Physics	David Brenner (New York, USA)
	Chemistry	G. Don Jones (Leicester, UK)
	Biology	Robert P. Coppes, (Groningen, The Netherlands)
	Medicine	Koji Ono (Osaka, Japan)
	At-large	Kazuo Sakai (Chiba, Japan)
		Richard P. Hill (Toronto, Canada)
		Jacqueline P. Williams (Rochester, USA)

Councillors appointed by member societies having 100 or more active members:

Asian Association for Radiation Research	Polat Kazymbet (Astana, Republic of Kazakhstan)
Association for Radiation Research	Rhona M. Anderson (London, UK)
China Committee for Radiation Research	Ziqiang Pan (Beijing, China)
Dutch Society for Radiobiology	Peter Sminia (Amsterdam, The Netherlands)
European Radiation Research Society	Mohi Rezvani (Reading, UK)
German National Association of Radiation Research Societies	Herwig G. Paretzke (Neuherberg, Germany)
Irish Radiation Research Society	Fiona M. Lyng (Dublin, Ireland)
Italian Society for Radiation Research	Giustina Simone (Rome, Italy) 2011-2012 Antonella Tabocchini (Rome, Italy) 2013-2015
Japanese Association for Radiation Research	Takeo Ohnishi (Nara, Japan)
Korean Association for Radiation Research	Eun Kyung Choi (Seoul, Republic of Korea)
Polish Radiation Research Society	Antonina Cebulska-Wasilewska (Cracow, Poland)
Radiation Research Society	Bruce F. Kimler (Kansas City, USA)

The interim Council meeting was held in Dublin during the 40th Annual Meeting of the European Radiation Research Society on September 2, 2013. During the meeting two bids to host the 2019 International Congress of Radiation Research were presented, the Council decided by a majority of votes for the Association for Radiation Research proposal, therefore the 16th ICRR will be held in the end of August 2019 in Manchester.

The Fifteenth International Congress of Radiation Research was held at Kyoto from May 25-29, 2015 (Masahiro Hiraoka, President; Kenji Kamiya, Secretary General; Masahiro Hiraoka, Chair of the Organizing Committee; Yasumasa Nishimura and Kazuo Sakai, Co-Chairs of the Scientific Committee). Ohtsura Niwa was the eighth recipient of the Henry S. Kaplan Award. The Congress attracted an audience of approximately 2000 scientists.

The fourteenth Council: 2015-2019

The General Assembly took place during the Kyoto congress on May 28, 2015 and the new (fourteenth) Council met on May 29, 2015.

From the list of candidates the following Council was elected:

IARR Council 2015-2019

President	Mary-Helen Barcellos-Hoff (New York, USA)
Vice-President	Yoshiya Shimada (Chiba, Japan)
Secretary-Treasurer	Penny Jeggo (Brighton, UK)

Councillors	Physics	Francesca Ballarini (Pavia, Italy)
	Chemistry	Jean-Luc Ravanat (Grenoble, France)
	Biology	Robert P. Coppes, (Groningen, The Netherlands)
	Medicine	Kiyoshi Miyagawa (Tokyo, Japan)
	At-large	Gayle E. Woloschak (Chicago, USA) George Iliakis (Essen, Germany) Susan Bailey (Fort Collins, USA)

Councillors appointed by member societies having 100 of more active members:

Asian Association for Radiation Research	Polat Kazymbet (Astana, Republic of Kazakhstan)
Association for Radiation Research	Rhona M. Anderson (London, UK)
China Committee for Radiation Research	Ziqiang Pan (Beijing, China)
Dutch Society for Radiobiology	Nicolaas A.P. Franken (Amsterdam, The Netherlands)
European Radiation Research Society	George Don Jones (Leicester, UK)
German National Association of Radiation Research Societies	Werner Rühm (Neuherberg, Germany)
Irish Radiation Research Society	Fiona M. Lyng (Dublin, Ireland)
Italian Society for Radiation Research	Antonella Tabocchini (Rome, Italy)
Japanese Association for Radiation Research	Takeo Ohnishi (Nara, Japan)
Korean Association for Radiation Research	Eun Kyung Choi (Seoul, Republic of Korea)
Polish Radiation Research Society	Antonina Cebulska-Wasilewska (Cracow, Poland)
Radiation Research Society	Bruce F. Kimler (Kansas City, USA)

The interim Council meeting was held during the Annual Meeting of the European Radiation Research Society in Essen, in two sessions on September 19 and 20, 2017. During the meeting, one bid to host the 2023 International Congress of Radiation Research were presented by Shirley Lehnert. The Council agreed to accept the proposal. Therefore the 17th ICRR will be held August 27 to September 1, 2023 in Montreal, Canada.

The Sixteenth International Congress of Radiation Research was held in Manchester from August 25 to 29, 2019 (Kaye Williams, Local Organising Committee Chair). Dudley Goodhead was the ninth recipient of the Henry S. Kaplan Award. The Congress attracted an audience of approximately 1000 scientists.

The General Assembly took place during the Manchester congress on August 25, 2019 and the new (fifteenth) Council met on August 26, 2019.

From the list of candidates the following Council was elected:

IARR Council 2019-2023

President		Yoshiya Shimada (Chiba, Japan)
Vice-President		George Iliakis (Essen, Germany)
Secretary-Treasurer		Fiona M. Lyng (Dublin, Ireland)
Councillors	Physics	Chiara La Tessa (Trento, Italy)
	Chemistry	Yoichi Yoshida (Chiba, Japan)
	Biology	Hiroshi Harada (Kyoto, Japan)
	Medicine	David Kirsch (Durham, USA)
	At-large	Edouard Azzam (Newark, USA)
		Rhona M. Anderson (London, UK)
		Ester Hammond (Oxford, UK)

Councillors appointed by member societies having 100 or more active members:

Asian Association for Radiation Research	Kaushala Prasad Mishra (Allahabad, India)
Association for Radiation Research	Jonathan Coulter (Belfast, UK)
China Committee for Radiation Research	Ziqiang Pan (Beijing, China)
European Radiation Research Society	Lorenzo Manti (Naples, Italy)
Irish Radiation Research Society	Suneil Jain (Belfast, UK)
Italian Radiation Research Society	Maria Antonella Tabocchini (Rome, Italy)
Japanese Association for Radiation Research	Akihisa Takahashi (Gumma, Japan)
Polish Radiation Research Society	Antonina Cebulska-Wasilewska (Cracow, Poland)
Radiation Research Society	Bruce F. Kimler (Kansas City, USA)

The interim Council meeting was held by video teleconference in two sessions. The first was on October 6, 2021; the second on November 18, 2021. During the second meeting, three bids to host the 18th International Congress of Radiation Research in 2027 were presented. Kaushala Prasad Mishra presented the bid from the Society of Radiation Researchers, India (SRRI). Dr Iva Falková presented the bid from the Czech Medical Society of Jan Evangelista Purkyne (CzMA)-Radiobiology Society. Qingjie Liu presented the bid from the China Committee for Radiation Research (CCRR). The Council voted to accept the proposal from CzMA. Therefore, the 18th ICRR will be held in June 2027 in Brno, Czech Republic.

The Seventeenth International Congress of Radiation Research was held in Montreal, Canada from August 27 to 30, 2023 (Jan Schuemann, Program Chair; Douglas Boreham, Program Co-Chair; Shirley Lehnert, General Chair). Marco Durante was the tenth recipient of the Henry S. Kaplan Award. The Congress attracted 542 regular registrants, 203 students, 41 exhibitors, and 64 guests for a total of 850 in attendance.

The meeting of the Old Council took place during the Montreal congress on August 28, 2023. The General Assembly took place on August 29, 2023. The new (sixteenth) Council met on August 30, 2023.

From the list of candidates the following Council was elected:

IARR Council 2023-2027 (Initial Composition)

President	George Iliakis (Essen, Germany)
Vice-President	Rhona M. Anderson (London, UK)
Secretary-Treasurer	Fiona M. Lyng (Dublin, Ireland)
Councillors	Physics Karen Kirby (Manchester, UK)
	Chemistry Rebecca Abergel (Berkely, USA)
	Biology Markus Loblrich (Darmstadt, Germany)
	Medicine Navita Somaiah (London, UK)
	At-large Jan Bussink, (The Netherlands)
	Rachel Lane (Canada)
	Ruth Wilkins (Canada)

Councillors appointed by member societies having 100 of more active members:

Asian Association for Radiation Research	Kaushala Prasad Mishra (Allahabad, India)
Association for Radiation Research	Jonathan Coulter (Belfast, UK)
China Committee for Radiation Research	Xu Su (Beijing, China)
Dutch Society for Radiobiology	Arlene Oei (Amsterdam, The Netherlands)
European Radiation Research Society	Martin Falk (Brno, Czech Republic)
Irish Radiation Research Society	Laure Marignol (Ireland)
Italian Radiation Research Society	Giuseppe Battistoni (Rome, Italy)
Japanese Association for Radiation Research	Hiroshi Harada (Kyoto, Japan)
Polish Radiation Research Society	Dorota Słonina (Cracow, Poland)
Radiation Research Society	Bruce F. Kimler (Kansas City, USA)

A special meeting of Council was held by video teleconference on September 25, 2023 to discuss a major reorganization of the governance mechanisms. After nearly 50 years of existence, the Council decided that it was necessary to modernize the operating principles by which the IARR operated. The Constitution, written in 1974 when the every four year International Congress was likely the only time that individuals met face-to-face, was simply not efficient in the modern era of global telephone service, internet, e-mail, and virtual meetings. With this in mind, an amendment to the Constitution was proposed that would eliminate the General Assembly, composed of Delegates appointed by the individual member societies, that meets once every four years during the ICRR and yet is responsible for major decisions. In its stead, the role of the Council was expanded. The Council for decades had been composed of officers and Councillors representing the four original primary disciplines, elected by the General Assembly; plus one Councillor appointed by each of the member societies (with more

than 100 members) to represent the society's interests. It was mandated to hold two meetings during the ICRR as well as a scheduled interim meeting and was responsible for all interim decisions including selection of the host venue for future ICRRs. In the new structure, the Council would become the sole governing body of the IARR, with the same officers (President, Vice-President/President-Elect, and Secretary-Treasurer) and same four discipline Councillors, but now with the number of Councillors representing the member societies being determined by the number of members in the society (as was used to determine the number of Delegates to the General Assembly). The election of officers and discipline Councillors has also changed from being conducted by the General Assembly to direct voting by the member societies via e-mail. Finally, the use of virtual meetings of the Council was authorized so as to allow continuous governance between ICRRs and a rapid response to any issues. Overall, the intent was to provide a nimble operation that would be more representative of the interests of the member societies. These changes to the Constitution, and secondarily to the Bylaws (which became a set of Standard Operating Procedures), were developed by the IARR officers, discussed by the Council on September 25, 2023, and then formally approved by a mail vote of Council concluding October 6, 2023. The proposed Constitution and Bylaws were then distributed to the member societies for their review and approval. Approval by the member societies was unanimous with no dissenting votes. With that, the new Constitution and Bylaws were officially in effect as of November 17, 2023.

A special meeting of Council was held by video teleconference on March 15, 2024 to discuss further adjustments to the Constitution. First, a discipline-defined Councilor to represent the field of Epidemiology was added. Secondly, language was added to provide guidance for how to deal with fluctuations in the number of members within a member society that could potentially affect the number of Councilors to which the society was entitled. These amendments were approved unanimously by Council and subsequently by the member societies. The revised Constitution became effective July 11, 2024. The added Councilor for Epidemiology was elected in December 2024. In March, 2025 two organizations applied for membership in IARR and were accepted. They are the French Society of Radiation Biology (Société Française de Biologie des Radiations, SFBR), accepted on March 2025; and the International Union of Radioecology (IUR), accepted in June 2025. Each is entitled to one Councilor to represent the society. The re-organized Council structure and the added Councilors are provided below.

IARR Council 2023-2027 (as of June 2025)

President	George Iliakis (Essen, Germany)
Vice-President	Rhona M. Anderson (London, UK)
Secretary-Treasurer	Fiona M. Lyng (Dublin, Ireland)
Councillors	Physics Karen Kirby (Manchester, UK)
	Chemistry Rebecca Abergel (Berkeley, USA)
	Biology Markus Loblrich (Darmstadt, Germany)
	Medicine Navita Somaiah (London, UK)
	Epidemiology Kotaro Ozasa (Kyoto, Japan) from 2024

Councillors appointed by member societies on the basis of number of active members:

Asian Association for Radiation Research	Kaushala Prasad Mishra (Allahabad, India)
Association for Radiation Research	Jonathan Coulter (Belfast, UK)
China Committee for Radiation Research	Xu Su (Beijing, China)
Dutch Society for Radiobiology	Arlene L. Oei (Amsterdam, The Netherlands)
European Radiation Research Society	Martin Falk (Brno, Czech Republic)
French Society of Radiation Biology (from 2025)	Christophe Badie (Chilton, UK)
International Union of Radioecology (from 2025)	Carmel Mothersill (Hamilton, Canada)
Irish Radiation Research Society	Laure Marignol (Ireland)
Italian Radiation Research Society	Silva Bortolussi (Pavia, Italy)
Japanese Association for Radiation Research	Hiroshi Harada (Kyoto, Japan) Akihisa Takahashi (Gumma, Japan) Satoshi Tashiro (Hiroshima, Japan)
Polish Radiation Research Society	Dorota Słonina (Cracow, Poland)
Radiation Research Society	Bruce F. Kimler (Kansas City, USA) Richard A. Britten (Norfolk, USA) Ashley P. Golden (Oak Ridge, USA)
Councillor-at-large representing	Michelle Durant
South African Radiobiology Society (SARS)	(Kirrawee, Australia)
Australian Institute of Nuclear Science and Engineering (AINSE)	
Deutsche Gesellschaft für Biologische Strahlenforschung (DeGBS)	
Deutsche Gesellschaft für DNA-Reparaturforschung (DEDR)	

List of Appendices

- Appendix I: Original Constitution of the IARR, approved 1964.
- Appendix II: Constitution amended 1974
- Appendix III: Constitution amended 2023
- Appendix IV: Constitution amended 2024

5

Text finale approvata Consiglio

Appendix I: Original Constitution Approved 1964

Proposed Constitution
for
INTERNATIONAL ASSOCIATION FOR RADIATION RESEARCH

1. Objectives

The Objectives of the Association are to advance radiation research by:

1. Fostering and maintaining international scientific cooperation and communication between national or regional societies, groups and individual scientists interested in the physical, chemical, biological and medical aspects of radiation effects.
2. Promoting the organization of an International Congress of Radiation Research every four years or at such intervals as may be determined by the Council of the Association.
3. Promoting and facilitating international scientific conferences and symposia.
4. Establishing liaison with the International Council of Scientific Unions (I.C.S.U.) and its scientific members whose aims are related to those of this association in order to facilitate appropriate representation of radiation research within the I.C.S.U. member bodies.

II. Membership

Association for Radiation Research

Radiation Research Society

Japanese Radiation Research Society

Société Européenne de Radiobiologie
~~Association des Radiobiologistes des Pays de l'Euratom~~

Those Societies and Organizations whose applications are accepted by the Council in accordance with V.4a.

III. Administration

1. The affairs of the Association will be conducted by a Council and an Assembly.
2. The officers of the Association are:
 - a. The President
 - b. The Vice-president who shall be president-elect
 - c. The Secretary-Treasurer or a Secretary and a Treasurer
3. ~~The~~ executive body of the Association is the Council.
4. The Council consists of:
 - a. The officers of the Association
 - b. Four councillors representing physics, chemistry, biology and medicine
 - c. One councillor from each adhering Radiation Research Society which has more than 100 active members
 - d. Three members-at-large.
5. The limit of at least 100 active members as stated in paragraph (4c) is subject to modification by the

Council so that the total members of the Council shall not exceed 20.

6. Councillors shall assume office at the end of the Congress at which they were elected or appointed and shall remain in office until the end of the following Congress.
7. a. The Assembly shall consist of the Council and delegates appointed by the Member Radiation Research Societies and other adhering organizations. Only the delegates shall have voting powers.
- b. The number appointed is to be determined according to the following table:

Number of active and subscribing members of Radiation Research Societies or other member organizations	Number of Official Delegates
less than 25	0
25 to 100	1
100 to 200	2
200 to 500	3
500 to 1000	4
over 1000	5

IV. Election of Officers and Councillors

1. Officers and Councillors with the exception of those named in III, 4c will be elected by the Assembly (of official delegates) at the time of each International Congress.

- a. Elections by delegates will be based on the majority of all votes cast.
2. Nominations for President, Vice-president, Secretary-Treasurer, Councillors for Physics, Chemistry, Biology and Medicine and Councillors-at-large shall be made by a committee to be appointed by the Council. Nominations will be presented to the official delegates for election. It is recommended that at least 2 candidates should be proposed for each office. The President shall not be eligible for re-election to the same office.
3. Councillors named in III 4c will be appointed by the respective societies. The names of official delegates should be communicated to the Secretary in advance to each Congress.
4. When a vacancy occurs, the Council, by majority vote, will appoint members to serve the remainder of the unexpired terms, with the exception of the representatives of adhering Radiation Research Societies where appointments will be made by the society concerned.

V. Duties of the Officers, Council and Delegates

1. The President is the executive officer of the Society, and serves ex-officio as chairman of the Council and of the Assembly of official delegates. He should convene the Council at least once during the period between the international congresses, and

prepare the programme of the Council meetings. He shall convene the Assembly during each Congress but has no voting right in the Assembly except in case of a tie. The President represents the Association on international occasions and conducts other business that is necessary for the promotion of the Association.

2. The Vice-president performs all the functions of the President in his absence and serves as a member of the council. In the absence of both President and Vice-president, the Council shall nominate one of its members to serve.
3. The Secretary-Treasurer will perform all duties customarily associated with his office. He will also function as Secretary of the Assembly of delegates, but will not have voting rights in the Assembly.
4. a. The Council is the executive body of the Association. In this capacity the Council will have to evaluate and decide upon:
applications for membership of societies and other organizations. Societies and other organizations applying for membership must provide a list of their active members.
b. Any decision of the Council will be taken by majority votes provided that at least 50% of the members of the Council are present. A mail ballot will be valid only if at least 50% of the members

have replied.

5. The Assembly of delegates shall consider items of business relevant to the Association, and may submit resolutions to the Council. It shall elect officers and Councillors with the exception of those named in III 4c and vote on any amendments prepared in accordance with paragraph VIII, 2.

VI. Congresses

1. The Congress shall generally meet every four years. The date and country of the meeting shall be fixed by the Council and communicated to the adhering bodies at least two years in advance.
2. The scientific programme and the organization of the Congress will be the responsibility of the local organizing committee.

VII. Finances

1. Member societies or organizations will pay an annual fee for each of its active members. The fee will be determined by the Council from time to time and in first instance it is set at U.S. \$ 0.25.
2. When a body has not paid its dues for three consecutive years, the Council may decide that it cease to form part of the Association.
3. The income of the Association, derived from the contributions of the different bodies, is to be devoted

to:

- a. The cost of administration
- b. Educational purposes which promote the interest of Radiation Research.

4. A financial committee, appointed by the President, with the approval of the Council, will review and audit the records of the Secretary-Treasurer every two years.

VIII. Amendments to the Constitution

1. Amendments to the Constitution must be submitted by the Council to the member organizations at least 6 months before a Congress so that the actual vote by the delegates to the Assembly can be taken at the time of a Congress.
2. Amendments to the constitution can be initiated by the Council or by any three of the member organizations, but in the latter instance amendments should in any case be in the hands of the Secretary 12 months before the Congress.
3. No amendment can be made in the terms of the existing constitution without the approval of two-thirds of the delegates present and voting at a meeting of the Assembly.

- IX. This Constitution will be in force when approved by the majority of the present Councillors and ratified by the

majority of the member organizations determined at the Harrogate Congress (see paragraph 2).

The present Council will stay in office until the end of the International Congress scheduled for 1966.

X. The Assembly and Council may enact by-laws for their operation.

Appendix II: Constitution 1974-2023

Constitution of the

International Association for Radiation Research

The present Constitution of the International Association for Radiation Research was approved by the General Assembly at its meeting of 16 July 1974 in Seattle (USA)

I. Aims

The Aims of the Association are to advance radiation research by:

1. fostering and maintaining scientific co-operation and communication between national or regional societies, groups and individual scientists concerned with any or all of the physical, chemical, biological and medical aspects of radiation research;
2. promoting the organisation of International Congresses of Radiation Research;
3. promoting and facilitating international scientific conferences and symposia;
4. establishing liaison with the International Council of Scientific Unions and with those individual Unions whose aims are related to those of this association in order to facilitate appropriate representation of radiation research within the ICSU member bodies.

II. Membership

National or regional societies for promoting radiation research may apply for membership of the Association in accordance with the procedure laid down in the Bylaws.

Such applications will be considered and voted on by the Council in the light of the Aims set out in paragraph I.

In the event of a favourable vote the Society will be admitted at once to full membership of the Association.

If the majority in Council is not in favour of admission the organisation applying shall have the right to apply again after a period of at least six months and any such second application, if not accepted by Council, shall be placed before the Assembly at its next meeting and voted on by the Delegates.

III. Administration

1. The affairs of the Association shall be conducted by a Council and an Assembly.
2. The Officers of the Association shall be:
 - a. the President;
 - b. the Vice-President who shall be President-elect;
 - c. the Secretary-Treasurer.

3. The executive body of the Association shall be the Council.
4. The Council shall consist of:
 - a. the Officers of the Association;
 - b. one Councillor representing each of the four disciplines: physics, chemistry, biology and medicine;
 - c. one Councillor appointed by each member organisation which has more than 100 active members;
 - d. three Councillors-at-large;
 - e. no person may be elected to Council in more than one of the three capacities set out in III.4b, c and d.
5. All Officers and Councillors shall assume office at the end of the Congress at which they were elected or appointed and shall remain in office until the end of the following Congress.
6. The Assembly:
 - a. the Assembly shall consist of the Delegates appointed by the member organisations, but the members of Council shall sit, *ex officio*, with the Assembly when it meets, without the right to vote, except for the President's casting vote as set out in V.1;
 - b. the number of Delegates appointed by each member organisation shall be determined in accordance with the relevant table in the Bylaws.

IV. Election of Officers and Councillors

1. Officers and Councillors with the exception of those named in III.4c shall be elected by the Assembly at the time of each International Congress.
2. Nominations for Vice-President (who shall be President-elect), Secretary-Treasurer, Councillors for Physics, Chemistry, Biology and Medicine, and Councillors-at-large, shall be made by a Nominating Committee of five members to be appointed by Council. Not more than two members of this committee shall be currently serving on Council.

At least two candidates shall be nominated for each post. Further nominations from Delegates to the Assembly shall be accepted provided that they are made in writing by a proposer and a seconder, and that they contain evidence of the candidate's willingness to serve if elected. The President shall not be eligible for re-election as an Officer of the Association. The Secretary-Treasurer may serve for two consecutive terms. The Assembly shall fill the above-named posts by election from the list of nominations received.
3. When a vacancy occurs in any of the positions filled by election at the Assembly, Council shall co-opt a member of Council to fill any vacancy in the Officers and a member of the Assembly to fill any vacancy in the elected Councillors. Co-opted members shall serve for the remainder of the term of office.
4. Councillors referred to in III.4c will be appointed by the respective member organisations. The names of such Councillors and of Delegates to the Assembly shall be communicated to the Secretary-Treasurer by the member organisations before the meeting of the Assembly. If the Councillor representing a member

organisation or any Delegate to the Assembly is unable to attend a meeting, a substitute may be designated by the Officers of the relevant member organisation and such a substitute shall be accepted as a full member of Council or Assembly for the duration of that meeting provided that written notice of the substitution has been received by the Secretary-Treasurer from the member organisation before the time of the meeting.

V. Duties of the Officers, Council and Delegates

1. The President shall be the executive Officer of the Association, and shall serve *ex officio* as chairman of the Council and of the Assembly of Delegates. He/she shall convene the Council and the Assembly during each International Congress and the Council at least once during the period between Congresses. He/she shall have no voting right in the Assembly except in case of a tie. The President shall act on behalf of Council in all the business necessary to promote the aims of the Association, and he/she or a representative appointed by the President shall represent the Association on appropriate international occasions.
2. The Vice-President shall perform the functions of the President whenever the latter is unable to perform these. If both President and Vice-President are absent, the Council shall nominate another of its members to preside.
3. The Secretary-Treasurer shall perform all duties customarily associated with that office. In consultation with the President he/she shall prepare the Agenda for meetings of Council and of the Assembly. He/she shall also function as Secretary of the Assembly of Delegates, but shall not have voting rights in the Assembly.
4.
 - a. the Council shall be the executive body which conducts all the business of the Association
 - b. the quorum for a meeting of Council shall be seven, but no meeting of Council shall be deemed valid if a majority of those present and voting belong to a single member organisation;
 - c. decisions of Council shall normally be taken by a simple majority vote. In the event of a tie the President shall use his casting vote. A mail ballot shall be valid only if at least half the members of Council have voted.
5.
 - a. the Assembly of Delegates, in addition to its electoral duties, as specified in IV.1 and 2, shall consider items of business relevant to the Association and may submit resolutions to the Council for its consideration;
 - b. the quorum for a meeting of the Assembly shall be half the number of Delegates who have been duly appointed by the member organisations and whose names have been received by the Secretary-Treasurer before the meeting of the Assembly: except that substitutes may attend, in accordance with IV.4, and may be counted for the quorum;
 - c. except for proposed amendments of the Constitution, decisions of the Assembly shall be taken by simple majority vote. In the case of a tie the President shall use his/her casting vote. Voting on any proposed amendment of the Constitution of the Association shall be carried out in accordance with VIII.3.

VI. Congresses

1. A scientific Congress of the Association shall normally be organised once every four years or at such intervals as may be determined by the Council. The time and place shall be decided by Council in the light of invitations received.
2. The scientific programme and detailed organisation of the Congress shall be the responsibility of an Organising Committee to be set up by the member organisation in the host country, or, if none exists there, by a scientific group recognised by Council as competent for this purpose. The Organising Committee shall be nominated by the member organisation or other recognised group in the host country, subject to ratification by Council.
3. The financial affairs of the Congress shall be the responsibility of the Organising Committee but the latter shall submit to Council a budget at least one year before the Congress and an abridged statement of Congress finances within one year of the termination of the Congress. If the Congress produces a financial surplus, after the member organisation in the host country has been reimbursed for any direct outlay of funds (including, if it so desires, any loans and donations in support of the Congress made to the Organising Committee from public or private sources) a part of this surplus, to be agreed in advance with Council when the invitation from the host country is accepted, shall be transferred to the Association, subject to any legal restrictions governing the transfer of funds from the host country.

VII. Finances

1. Member organisations shall pay annual dues to the Association based on the number of their active members, as laid down in the Bylaws of the Association.
2. When any member organisation has failed to pay its dues for three consecutive years, Council shall consider termination of its membership.
3. The income of the Association shall be devoted to:
 - a. the cost of administration. Allowable expenses under this heading are those specified in the Bylaws;
 - b. educational and scientific purposes consistent with the aims of the Association;
 - c. travel assistance to Congresses.
4. A Finance Committee, to be appointed by Council, shall audit the accounts of the Secretary-Treasurer before each Congress.

VIII. Amendment of the Constitution

1. Resolutions involving amendment of the Constitution may be proposed by the Council or by any two of the member organisations acting together.
2. Any resolution involving amendment of the Constitution must be submitted to the Secretary-Treasurer for transmission to Council at least one year in advance of the meeting of the Assembly which will vote on it. After consideration by Council the

proposed amendment together with any additional material which Council deems to be relevant, shall be forwarded by the Secretary-Treasurer to all the member organisations at least six months before the meeting of the Assembly, so that Delegates may be fully informed of the proposed changes before they meet.

3. Any resolution involving amendment of the Constitution, having been submitted to the Secretary-Treasurer for transmission to Council in accordance with VIII.1 and 2, shall be put to the next properly constituted Assembly, and adopted if at least two-thirds of the Delegates present vote in favour of the proposed amendment.

IX. Instalment of Bylaws

1. The Council shall have power to draw up such Bylaws as it may from time to time deem necessary for the efficient operation of the Association and for the implementation of I to VIII.
2. Any new Bylaws or any changes in existing Bylaws which have been approved by Council shall come into force immediately and remain in force until the next meeting of the Assembly, but shall continue in force thereafter only if the additions or changes have been ratified by the Assembly.

Constitution of the International Association for Radiation Research

The original Constitution of the International Association for Radiation Research was approved by the General Assembly at its meeting of July 16, 1974 in Seattle (USA). The purpose of a revised Constitution is to retain the initial concepts and precepts of the organization but to provide for a more efficient mode of operation, communication, and decision making.

I. Aims

The Aims of the Association are to advance radiation research by:

1. fostering and maintaining scientific co-operation and communication between national or regional societies, groups and individual scientists concerned with any or all of the physical, chemical, biological and medical aspects of radiation research;
2. promoting the organisation of International Congresses of Radiation Research;
3. promoting and facilitating international scientific conferences and symposia;

II. Membership

1. National or regional societies for promoting radiation research may apply for membership (i.e., member society) of the Association in accordance with the procedure laid down in the Bylaws.
2. Such applications will be considered and voted on by the Council in the light of the Aims set out in paragraph I.
3. In the event of a favourable vote the society will be admitted at once to full membership of the Association.

III. Administration

1. The affairs of the Association shall be conducted by a Council.
2. The Officers of the Association, who shall function as the executive body of the Association for daily operations, shall be:
 - a. the President
 - b. the Vice-President who shall be President-elect

c. the Secretary-Treasurer

3. The Council shall consist of:

- a. the Officers of the Association;
- b. one councillor representing each of the four disciplines: physics, chemistry, biology and medicine;
- c. councillors appointed by each member society according to the number of active members, as follows:

No. of active members	No. of Councillors
less than 100	0
100 to 200	1
201 to 500	2
over 500	3

The number of active members for a society will be determined as the average number of members for whom annual dues were paid to the Association during the calendar year of the election plus the two preceding years. It shall be the responsibility for each member society to communicate the name(s) of their appointed Councillor(s) to the Secretary-Treasurer no less than two weeks prior to the start of the Congress;

- d. one Councillor-at-large to collectively represent the member societies which do not have an appointed Councillor under c above. It shall be the responsibility for the affected member societies, by whatever mechanism they mutually agree upon, to communicate the name of one individual to the Secretary-Treasurer no less than two weeks prior to the start of the Congress;
- e. no person may serve on Council in more than one of the four capacities set out above.

4. All Officers and Councillors shall serve a term defined as starting at the International Congress in the year in which they were elected or appointed and ending at the following International Congress. The exact timing and mechanism for the transition of Officers and Councillors will be specified in the Bylaws.

IV. Election of Officers and Councillors

- 1. Officers and Councillors named in III. a and b shall be elected by the member societies prior to the start of each International Congress.
- 2. Nominations for Vice-President (who shall be President-elect and shall succeed to the Presidency), Secretary-Treasurer, and Councillors for Physics, Chemistry, Biology and Medicine shall be made by a Nominating Committee of five members to be appointed by Council. Not more than three members of

this committee shall be currently serving on Council. The President shall not be eligible for immediate re-election as an Officer or elected Councillor of the Association. The Secretary-Treasurer may serve for two consecutive terms. The initial list of nominees shall be distributed by the Secretary-Treasurer to the member societies at least seven months prior to the start of the next Congress.

Further nominations from member societies shall be accepted provided that they are received from the governing body of the member society by the Secretary-Treasurer (or designee) at least five months prior to the start of the next Congress and the candidate's willingness to serve if elected has been obtained. Every effort should be made to have at least two candidates nominated for each post.

3. Election of Officers and Councillors will be conducted by distribution of the final slate of nominees to the member societies no later than four months prior to the start of the Congress. Each member society may cast votes for each elected position from the listed nominees; the number of votes to be determined as the number of appointed Councillors defined in III.3.c plus one. To be valid, votes must be returned by the member society to the Secretary-Treasurer (or designee) no later than three months prior to the start of the Congress. For instances where there are more than two nominees for a position and no nominee receives more than 50% of the votes cast for that position, a run-off election between the two nominees who received the most votes will be conducted as expeditiously as possible, with a deadline for receiving votes from member societies of no later than two months prior to the start of the Congress. If there is a tie after the run-off election, or if there is a tie in the initial election for positions with only two nominees, the current Council will make the final selection.
4. If a vacancy occurs in any of the Officer positions (III.2), Council shall co-opt a current member of Council to fill the vacancy. The selected individual shall serve for the remainder of the term of office.
5. If a vacancy occurs in any of the elected Councillor positions (III.3.b), a special election will be conducted following the general procedures above (IV.1-3) but as expeditiously as possible and without regard to the specified time prior to the start of the Congress.
6. If a vacancy occurs in any of the Councillors appointed by the respective member societies (III.3.c and d), the member society(ies) shall appoint an individual to fill the remainder of the term.

V. Duties of the Officers, Council and Delegates

1. The President shall be the executive officer of the Association and shall serve as chairman of the Council. He/she shall convene the Council at least once during each International Congress and at least once during the period between Congresses. He/she shall have no voting right in the Council except in case of a tie. The President shall act on behalf of Council in all the business necessary to promote the aims of the Association, and he/she shall represent the Association on appropriate international occasions.
2. The Vice-President shall perform the functions of the President whenever the latter is unable to perform these. If both President and Vice-President are absent, the Council shall designate another of its members to perform the functions.
3. The Secretary-Treasurer shall perform all duties customarily associated with that office. In consultation with the President, he/she shall prepare the Agenda for meetings of Council.
4. Functions of the Council
 - a. the Council shall be the body responsible for oversight of all business of the Association;
 - b. the quorum for a meeting of Council shall be one-half of the number of voting members of Council;
 - c. meetings of the Council may be conducted in-person, via teleconference, or a hybrid, at the discretion of Council. However, it is strongly encouraged that meeting(s) of the Council during the Congress be conducted in person;
 - d. decisions of Council shall normally be taken by a simple majority vote. In the event of a tie the President shall cast the deciding vote. At the discretion of the Officers, voting may be conducted electronically provided a suitable time for response is allowed. The time allowed for response will be 1 - 6 weeks, depending on the matter under discussion.

VI. Congresses

1. A scientific International Congress of Radiation Research shall normally be organised once every four years or at such intervals as may be determined by the Council. The time and place shall be decided by Council in the light of invitations received.
2. The scientific programme and detailed organisation of the Congress shall be the responsibility of an Organising Committee to be set up by the member society in the host country, or, if none exists there, by a scientific group recognised by Council as competent for this purpose. The Organising Committee shall be nominated by the member society or other recognised group in the host country, subject to ratification by Council.

3. The financial affairs of the Congress shall be the responsibility of the Organising Committee, but the latter shall submit to Council a budget at least one year before the Congress and an abridged statement of Congress finances within one year of the termination of the Congress.

VII. Finances

1. Member societies shall pay annual dues to the Association based on the number of their active members. The amount per active member shall be specified in the Bylaws of the Association.
2. When any member society has failed to pay its dues for three consecutive years, Council shall consider termination of its membership.
3. The income of the Association shall be devoted to:
 - a. the cost of administration. Allowable expenses under this heading are those specified in the Bylaws;
 - b. educational and scientific purposes consistent with the aims of the Association;
 - c. travel assistance to meetings and congresses;
 - d. support provided to the Organizing Committee of a Congress for purposes of convening and conducting the Congress.
4. A Finance Committee, to be appointed by Council, shall audit the accounts of the Secretary-Treasurer before each Congress. At the discretion of Council, an additional audit may be conducted to document the transition of accounts with change in the Secretary-Treasurer.

VIII. Amendment of the Constitution

1. Amendments to the Constitution may be proposed by the Council or by any four of the member societies acting together.
2. Any proposed amendments from member societies must be submitted to the Secretary-Treasurer for transmission to Council. The proposed amendments will be considered by Council. If any changes are required for legal reasons or to avoid internal conflicts, or for any other reason, they shall be made and the revised proposal returned to the submitting member societies for approval. Upon receipt of approval, Council will vote to accept or reject the proposed amendments. For acceptance, a favourable vote by at least two-thirds of Council members voting is required. If the proposed amendments are not accepted, the submitting member societies will be so informed and matter will be closed. If the proposed amendments are accepted by Council, they will be transmitted to all member societies for approval (see below; VIII.4).

3. Any proposed amendments initiated by Council will be discussed and then distributed for a vote (electronic voting is permitted). For acceptance, a favourable vote by at least two-thirds of Council members voting is required. If the proposed amendments are accepted by Council, they will be transmitted to all member societies for approval (see below; VIII.4)
4. Proposed amendments of the Constitution, having been accepted by Council, shall be distributed to all member societies. Unless at least one-third of the current member societies submit an objection (rejection) to the amendments to the Secretary-Treasurer within one month of distribution, the amendments will be considered to be adopted. The amended Constitution will go into effect at that time.

IX. Installment of Bylaws

1. The Council shall have power to draw up such Bylaws as it may from time to time deem necessary for the efficient operation of the Association and for the implementation of the Constitution.
2. Any new Bylaws or any changes in existing Bylaws which have been approved by Council shall come into force immediately.

X. Contingency Procedures

Circumstances beyond the control of the Association may preclude adherence to the procedures outlined in the Constitution and in the Bylaws. Situations include (but are not limited to) cancellation or postponement of the Congress, failure to achieve a quorum at a required meeting, delays in scheduled communications to the Council and/or the member societies. In the event of such an extraordinary circumstance, this Article authorizes the President, Vice-President, and Secretary-Treasurer to take whatever steps are necessary to deal with the emergency. While it is recognized that it may not be possible to adhere to the mandated policies and procedures, it shall be a guiding principle that the spirit and intent of the Constitution and Bylaws will be followed as much as possible. If it is necessary to initiate contingency procedures, the Council and member societies shall be informed as soon as feasible via notification(s) that should include the events requiring the contingency procedures, what decision was made and the rationale for it, and what is planned to deal with the situation.

Appendix IV: Constitution 2024

Constitution of the International Association for Radiation Research

The original Constitution of the International Association for Radiation Research was approved by the General Assembly at its meeting of July 16, 1974 in Seattle (USA). The purpose of a revised Constitution is to retain the initial concepts and precepts of the organization but to provide for a more efficient mode of operation, communication, and decision making.

I. Aims

The Aims of the Association are to advance radiation research by:

1. fostering and maintaining scientific co-operation and communication between national or regional societies, groups and individual scientists concerned with any or all of the physical, chemical, biological and medical aspects of radiation research;
2. promoting the organisation of International Congresses of Radiation Research;
3. promoting and facilitating international scientific conferences and symposia;

II. Membership

1. National or regional societies for promoting radiation research may apply for membership (i.e., member society) of the Association in accordance with the procedure laid down in the Bylaws.
2. Such applications will be considered and voted on by the Council in the light of the Aims set out in paragraph I.
3. In the event of a favourable vote the society will be admitted at once to full membership of the Association.

III. Administration

1. The affairs of the Association shall be conducted by a Council.
2. The Officers of the Association, who shall function as the executive body of the Association for daily operations, shall be:
 - a. the President
 - b. the Vice-President who shall be President-elect

c. the Secretary-Treasurer

3. The Council shall consist of:

- a. the Officers of the Association;
- b. one councillor representing each of the five disciplines: physics, chemistry, biology, medicine, and epidemiology;
- c. councillors appointed by each member society according to the number of active members, as follows:

No. of active members	No. of Councillors
less than 100	0
100 to 200	1
201 to 500	2
over 500	3

The number of active members for a society will be determined as the average number of members for whom annual dues were paid to the Association during the calendar year of the election plus the two preceding years. It shall be the responsibility for each member society to communicate the name(s) of their appointed Councillor(s) to the Secretary-Treasurer no less than two weeks prior to the start of the Congress;

- d. one Councillor-at-large to collectively represent the member societies which do not have an appointed Councillor under c above. It shall be the responsibility for the affected member societies, by whatever mechanism they mutually agree upon, to communicate the name of one individual to the Secretary-Treasurer no less than two weeks prior to the start of the Congress;
- e. no person may serve on Council in more than one of the four capacities set out above.
- f. If there is a substantial fluctuation in the average number of members for which a society has paid dues in the years between Congresses, such that it has potential to affect the number of appointed Councillors (items c and d above), Council shall decide whether a change in the number and composition of appointed Councillors should be made; and if so, whether to implement the change immediately or at the start of the next term.

4. All Officers and Councillors shall serve a term defined as starting at the International Congress in the year in which they were elected or appointed and ending at the following International Congress. The exact timing and mechanism for the transition of Officers and Councillors will be specified in the Bylaws.

IV. Election of Officers and Councillors

1. Officers and Councillors named in III. a and b shall be elected by the member societies prior to the start of each International Congress.
2. Nominations for Vice-President (who shall be President-elect and shall succeed to the Presidency), Secretary-Treasurer, and Councillors for Physics, Chemistry, Biology Medicine and Epidemiology shall be made by a Nominating Committee of five members to be appointed by Council. Not more than three members of this committee shall be currently serving on Council. The President shall not be eligible for immediate re-election as an Officer or elected Councillor of the Association. The Secretary-Treasurer may serve for two consecutive terms. The initial list of nominees shall be distributed by the Secretary-Treasurer to the member societies at least seven months prior to the start of the next Congress.

Further nominations from member societies shall be accepted provided that they are received from the governing body of the member society by the Secretary-Treasurer (or designee) at least five months prior to the start of the next Congress and the candidate's willingness to serve if elected has been obtained. Every effort should be made to have at least two candidates nominated for each post.

3. Election of Officers and Councillors will be conducted by distribution of the final slate of nominees to the member societies no later than four months prior to the start of the Congress. Each member society may cast votes for each elected position from the listed nominees; the number of votes to be determined as the number of appointed Councillors defined in III.3.c plus one. To be valid, votes must be returned by the member society to the Secretary-Treasurer (or designee) no later than three months prior to the start of the Congress. For instances where there are more than two nominees for a position and no nominee receives more than 50% of the votes cast for that position, a run-off election between the two nominees who received the most votes will be conducted as expeditiously as possible, with a deadline for receiving votes from member societies of no later than two months prior to the start of the Congress. If there is a tie after the run-off election, or if there is a tie in the initial election for positions with only two nominees, the current Council will make the final selection.
4. If a vacancy occurs in any of the Officer positions (III.2), Council shall co-opt a current member of Council to fill the vacancy. The selected individual shall serve for the remainder of the term of office.
5. If a vacancy occurs in any of the elected Councillor positions (III.3.b), a special election will be conducted following the general procedures above

(IV.1-3) but as expeditiously as possible and without regard to the specified time prior to the start of the Congress.

6. If a vacancy occurs in any of the Councillors appointed by the respective member societies (III.3.c and d), the member society(ies) shall appoint an individual to fill the remainder of the term.

V. Duties of the Officers, Council and Delegates

1. The President shall be the executive officer of the Association and shall serve as chairman of the Council. He/she shall convene the Council at least once during each International Congress and at least once during the period between Congresses. He/she shall have no voting right in the Council except in case of a tie. The President shall act on behalf of Council in all the business necessary to promote the aims of the Association, and he/she shall represent the Association on appropriate international occasions.
2. The Vice-President shall perform the functions of the President whenever the latter is unable to perform these. If both President and Vice-President are absent, the Council shall designate another of its members to perform the functions.
3. The Secretary-Treasurer shall perform all duties customarily associated with that office. In consultation with the President, he/she shall prepare the Agenda for meetings of Council.
4. Functions of the Council
 - a. the Council shall be the body responsible for oversight of all business of the Association;
 - b. the quorum for a meeting of Council shall be one-half of the number of voting members of Council;
 - c. meetings of the Council may be conducted in-person, via teleconference, or a hybrid, at the discretion of Council. However, it is strongly encouraged that meeting(s) of the Council during the Congress be conducted in person;
 - d. decisions of Council shall normally be taken by a simple majority vote. In the event of a tie the President shall cast the deciding vote. At the discretion of the Officers, voting may be conducted electronically provided a suitable time for response is allowed. The time allowed for response will be 1 - 6 weeks, depending on the matter under discussion.

VI. Congresses

1. A scientific International Congress of Radiation Research shall normally be organised once every four years or at such intervals as may be determined by

the Council. The time and place shall be decided by Council in the light of invitations received.

2. The scientific programme and detailed organisation of the Congress shall be the responsibility of an Organising Committee to be set up by the member society in the host country, or, if none exists there, by a scientific group recognised by Council as competent for this purpose. The Organising Committee shall be nominated by the member society or other recognised group in the host country, subject to ratification by Council.
3. The financial affairs of the Congress shall be the responsibility of the Organising Committee, but the latter shall submit to Council a budget at least one year before the Congress and an abridged statement of Congress finances within one year of the termination of the Congress.

VII. Finances

1. Member societies shall pay annual dues to the Association based on the number of their active members. The amount per active member shall be specified in the Bylaws of the Association.
2. When any member society has failed to pay its dues for three consecutive years, Council shall consider termination of its membership.
3. The income of the Association shall be devoted to:
 - a. the cost of administration. Allowable expenses under this heading are those specified in the Bylaws;
 - b. educational and scientific purposes consistent with the aims of the Association;
 - c. travel assistance to meetings and congresses;
 - d. support provided to the Organizing Committee of a Congress for purposes of convening and conducting the Congress.
4. A Finance Committee, to be appointed by Council, shall audit the accounts of the Secretary-Treasurer before each Congress. At the discretion of Council, an additional audit may be conducted to document the transition of accounts with change in the Secretary-Treasurer.

VIII. Amendment of the Constitution

1. Amendments to the Constitution may be proposed by the Council or by any four of the member societies acting together.
2. Any proposed amendments from member societies must be submitted to the Secretary-Treasurer for transmission to Council. The proposed amendments

will be considered by Council. If any changes are required for legal reasons or to avoid internal conflicts, or for any other reason, they shall be made and the revised proposal returned to the submitting member societies for approval. Upon receipt of approval, Council will vote to accept or reject the proposed amendments. For acceptance, a favourable vote by at least two-thirds of Council members voting is required. If the proposed amendments are not accepted, the submitting member societies will be so informed and matter will be closed. If the proposed amendments are accepted by Council, they will be transmitted to all member societies for approval (see below; VIII.4).

3. Any proposed amendments initiated by Council will be discussed and then distributed for a vote (electronic voting is permitted). For acceptance, a favourable vote by at least two-thirds of Council members voting is required. If the proposed amendments are accepted by Council, they will be transmitted to all member societies for approval (see below; VIII.4)
4. Proposed amendments of the Constitution, having been accepted by Council, shall be distributed to all member societies. Unless at least one-third of the current member societies submit an objection (rejection) to the amendments to the Secretary-Treasurer within one month of distribution, the amendments will be considered to be adopted. The amended Constitution will go into effect at that time.

IX. Installment of Bylaws

1. The Council shall have power to draw up such Bylaws as it may from time to time deem necessary for the efficient operation of the Association and for the implementation of the Constitution.
2. Any new Bylaws or any changes in existing Bylaws which have been approved by Council shall come into force immediately.

X. Contingency Procedures

Circumstances beyond the control of the Association may preclude adherence to the procedures outlined in the Constitution and in the Bylaws. Situations include (but are not limited to) cancellation or postponement of the Congress, failure to achieve a quorum at a required meeting, delays in scheduled communications to the Council and/or the member societies. In the event of such an extraordinary circumstance, this Article authorizes the President, Vice-President, and Secretary-Treasurer to take whatever steps are necessary to deal with the emergency. While it is recognized that it may not be possible to adhere to the mandated policies and procedures, it shall be a guiding principle that the spirit and intent of the Constitution and Bylaws will be followed as much as possible. If it is necessary to initiate contingency procedures, the Council and member societies shall be informed as soon as feasible via notification(s) that should

include the events requiring the contingency procedures, what decision was made and the rationale for it, and what is planned to deal with the situation.

Original Approval – July 1974
Amended – November 17, 2023
Amended – July 11, 2024