

11TH ICRR DUBLIN 1999

Patron of the 11th congress: Her Excellency President Mary McAleese, Uachtarán na hÉireann.

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CONGRESS INFORMATION

Congress Venue

The 11th International Congress of Radiation Research will take place on the Belfield campus of University College Dublin, 5km (3 miles) from Dublin's city centre. It will be located in the Arts/Commerce Building overlooking the campus lake. Shuttle buses will transport delegates morning and evening between the site and city centre locations. Good public transport and taxis are also available at other times.

Badges

Congress badges are required for access to the scientific sessions, technical exhibition and social functions.

Official Language

The official language of the congress is English. All abstracts and presentations must be in English.

No Smoking Policy

Smoking is not permitted on the Congress site, except in designated areas.

Congress Technical Exhibition

A technical exhibition (equipment / books) will take place in the Arts/Commerce Building. Interested exhibitors should contact the Congress Secretariat directly for more information.

Lunch & Light Meals

Lunches are not included in the registration fee. There are restaurant, cafeteria and bar facilities on campus

Letter of Invitation

Official invitations may be obtained to facilitate participants attempting to obtain supporting funds, visas or permission to attend the Congress. Please write to the Congress Secretariat specifying any special information that may be required. Please note these invitations are specifically for the purpose of obtaining visas and do not imply any financial commitment on the part of the Congress Secretariat.

Congress Audio-Visual Material

Standard 35mm (5x5cm) single slide projection and overhead projection will be available. Cardboard frames cannot be accepted.

All slides should be submitted to the relevant slide room at least two hours before the session. Speakers are requested to collect their slides from the slide room following their session. Details will be sent with confirmation of abstract acceptance.

Liability

The 11th International Congress of Radiation Research and the Congress Secretariat cannot be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather, war or any other cause. Participants are advised to take out their own insurance.

Press Office

Press conferences and releases will be arranged by the Congress Secretariat at a location to be notified in the Final Programme.

CONGRESS REGISTRATION FEES

Registration	Before Jan 31, 1999	After Jan 31, 1999
Delegate	IR£395.00	IR£450.00
Accompanying person	IR£140.00.00	IR£150.00.00

- Registration will not be confirmed until registration fees have been received by the Congress Secretariat.
- Abstracts will only be accepted when the registration fee has been paid.
- To register please complete and mail or fax your congress registration and accommodation forms with payment to the Congress Secretariat.
- **Finale Evening - Thursday July 22 1999**
The cost for the Finale Evening has not been included in the registration fee. If you would like to attend please tick the appropriate box on the Congress Registration Form and return with payment to the Congress Secretariat.

- Teen Programme - If you have family members travelling with you who would be interested in participating in the older child/teen programme please tick the appropriate box on the Congress Registration Form.
- Parents travelling with young children who require day-time care should contact the Congress Secretariat.

ENTITLEMENTS

The delegate registration fee includes:

- Participation at all scientific sessions
- Badge and bag with all congress documents
- Final post congress publication
- Half day tour on Wednesday 21/7/99 (specify choice on Social Programme Registration Form)
- Admittance to the exhibition area
- Invitation to the Opening Ceremony and Welcome Party on Sunday July 18th 1999
- Invitation to any receptions organised by societies organising award lecture events

The accompanying person's fee includes

- Badge for the Congress
- Half day tour on Wednesday July 21st 1999 and one other Half day tour on July 19th, 20th or 22nd 1999 (please specify choice on the Social Programme Registration Form)
- Admittance to the exhibition area
- Invitation to the Opening Ceremony and Welcome Party on Sunday July 18th 1999
- Invitations to any receptions organised by societies organising award lecture events

Cancellation of congress registration

All cancellations of Congress Registration will incur an administration fee of at least IR£ 20.00. This sum will increase significantly with time and no refund of registration fee will be possible for cancellations received less than two months before the Congress due to contract commitments.

ACCOMMODATION

UNIVERSITY / CAMPUS ACCOMMODATION

The Congress Secretariat has reserved accommodation at UCD Apartments (on site at the congress venue).

UCD Apartments

These are good quality, offering excellent value for money. They consist of 3 and 4 bedroom apartments each containing a kitchen and living room. The 3 bedroom apartments have a bathroom and shower room. The 4 bedroom apartments have 2 bathrooms. Apartments may be taken as a whole unit or on a sharing basis. 800 beds have been reserved at UCD. These will be allocated strictly on a first come, first served basis.

Booking of this accommodation should be made with the *Congress Secretariat* on the Congress Registration Form provided.

£30 deposit per person is required to secure accommodation at U.C.D. This should be sent with the Booking Form. The balance is payable to the Congress Secretariat on arrival. Prices are quoted on a room only basis. Breakfast is not included.

HOTEL ACCOMMODATION

Abbey Conference Services is responsible for all *Downtown Hotels* (some hotels which are not downtown, but which are located conveniently to the Congress venue, are also highlighted).

All bookings, queries and payments relating to hotels, should be directed to Abbey Conference Services and not to the Congress Secretariat.

Special accommodation for the 11th International Congress of Radiation Research has been reserved at a number of hotels in Dublin. Hotel details and prices are detailed on the Hotel Registration Form.

Accommodation rates have been negotiated with the hotels for the Congress and all prices, quoted in Irish pounds, are per room per night and are inclusive of full Irish breakfast and service charges at existing rates/ except where indicated otherwise.

Hotel Categories

5 star hotels - De luxe properties. All hotels offer a very high standard and are centrally located with a full range of services and facilities.

4 star hotels - Quality 4 star hotels, located close to the city centre with a full range of facilities - restaurants and bars.

3 star hotels - Superior and standard 3 star hotels. All hotels offer good service and all rooms have private facilities.

2 star hotels - Economy/tourist class hotel accommodation, all rooms with private facilities.

Guesthouses - Family run properties and houses, located in the city centre and suburbs, all rooms with private facilities. Ireland's guesthouses enjoy a reputation of excellence.

City centre student accommodation

Mercer Court - clean, comfortable, centrally located

Hotel Bookings

Hotel accommodation should be booked directly with Abbey Conference Services. The following conditions apply for bookings.

Hotel Deposits/Payments

A non refundable deposit of one night's accommodation is required to secure your reservation (deadline of March 31st 1999). The balance is payable directly to the hotels.

Refunds (Hotel accommodation only)

Please note the following hotel cancellation / refund conditions for the ICRR Conference.

Prior to May 21st 1999	Full Refund
Prior to June 4th 1999	75% Refund
Prior to June 18th	50% Refund
Prior to July 2nd 1999	25% Refund
After July 3rd 1999	NO REFUND

Cancellations must be notified in writing (letter or fax) to Abbey Conference Services. Refunds will be processed after the Congress.

Cancellation / Amendments

All cancellations before June 4th 1999, will incur a IR£ 25.00 administration fee. Any changes in hotel accommodation requirements will also incur a IR£25.00 administration fee.

Important Note

Due to the high level of demand for hotel accommodation in Dublin during the month of July 1999, we very strongly advise you to book your accommodation requirements as soon as possible. Requests will be processed in the order of receipt. If your hotel choice is not available, we will make every effort to ensure that you receive the next best possible option.

**Deadline for hotel accommodation registration :
31 march 1999.**

Please book as early as possible.

PAYMENT TERMS

Please note the following in relation to payment.

Congress Registration / University

Accommodation / Finale Evening 'Trinity College'

Payments for the above services should be directed to the 11th International Congress of Radiation Research in any of the following methods, and should be payable to ICRR 99.

1. *Credit Card* - VISA / Mastercard / Eurocard

2. *International Bank Draft* - in Irish pounds

3. *Euro cheques* - up to a maximum value of
IR£ 100.00 per cheque.

Hotel bookings / pre & post congress tours / Social programme options (excluding tours included in registration fees).

Payments for the above services should be directed to Abbey Conference Services in any of the following methods (payable to Abbey Conference Services) :

1. *Credit Card* - VISA / Mastercard / Eurocard

2. *International Bank Draft* - in Irish pounds

3. *Euro cheques* - up to a maximum value of
IR£100.00 per cheque

IMPORTANT DEADLINES

<i>Submission of Abstracts</i>	January 31st 1999
<i>Early Registration</i>	January 31st 1999
<i>Campus Accommodation</i>	January 31st 1999
<i>Booking Finale Evening</i>	January 31st 1999
<i>Non-Tenured Scientist Award</i>	October 15th 1998
<i>Hotel Accommodation Registration</i>	March 31st 1999
<i>Optional Social Programme</i>	March 31st 1999

IMPORTANT ADDRESSES

Congress Registration / Abstracts / Scientific Programme / University Campus Accommodation / Exhibition / Special Interest Excursions / Finale Evening, please contact :

Congress Secretariat
Dublin Institute of Technology
Radiation Science Centre
40-41 Lr Kevin Street
Dublin 8
Ireland

Tel: + 353 1 402 4666/402 4665

Fax: + 353 1 475 6793

E-mail: ICRR@iol.ie or cmothersill@rsc.iol.ie

Hotel bookings / Social Programme Options / Pre & Post Congress Tours

Abbey Conference Services
City Gate
22 Lr Bridge Street
Dublin 8

Tel : +353 1 679 9144

Fax : + 353 1 679 9722 / 679 0669

E-mail : acs@abbey.ie

SOCIAL PROGRAMME

Opening Ceremony and Welcome Party

Sunday July 18th 1999

This is free to all registered delegates and accompanying persons. After the formal ceremony and lecture, delegates are invited to an Irish party at which food, drink and Irish traditional entertainment will be featured.

Half Day Afternoon Tour

Wednesday July 21st 1999

The afternoon tour on Wednesday July 21st is free to all delegates and accompanying persons. A number of options are available, including some unusual ones which can be organised on a request basis. Please indicate your first choice on the Social Programme Booking Form.

Finale Evening

Thursday July 22nd 1999

Trinity College 'The Best of Ireland'

This evening brings together the character and charm of Ireland's oldest university in the city centre with the best of Irish cuisine and entertainment. Places are limited and therefore you are asked to apply by ticking the box on the Congress Registration Form. Tickets will be sold in order of receipt.

Price IR£40.00 per person. Transport not included.

WEDNESDAY AFTERNOON JULY 21ST, 1999 - HALF-DAY TOUR OPTIONS

A number of tour options are available on Wednesday afternoon, July 21st 1999. One tour is included in the registration fee for both Congress delegates and accompanying persons. Accompanying persons can avail of an additional half day tour, your choice should be indicated on the Social Programme Registration Form. The duration of the tour will be approx. 4 hours.

Dublin City Tour (Please choose option A or B)

Tour A - Dublin City Tour

Dublin is a city steeped in tradition and history, the birthplace of many world famous writers, poets and musicians, a lively and colourful combination of old and new. The city tour includes a visit to Dublin's famous Georgian squares, followed by a tour of Trinity College,

Dublin's oldest University, founded by Elizabeth I in 1592 (where you may visit the Book of Kells), then a drive through old Dublin, the Liberties and Phoenix Park, finishing with a visit to the Old Jameson Distillery, home of Irish Whiskey making.

Tour B - North Dublin Tour

This tour visits areas of north county Dublin. Travel along the coast to the picturesque fishing village of Howth. Stop to admire the magnificent views from the rocky Hill of Howth. Then continue on to Malahide Castle an elegant 12th century castle, furnished with period furniture, including the impressive Great Hall and Minstrels Gallery, before returning to the city centre. Tea and scones will be organised during the tour.

Tour C - Glendalough

Scenic drive through the Wicklow Mountains to the ancient monastic settlement of Glendalough where the ruins of St. Kevin's Church and monastery can be seen. The site contains one of the few remaining Round Towers as well as a Celtic High Cross. Apart from its historic interest, Glendalough (Glen of the Two Lakes) is famous for its beauty, tranquillity and mystic quality. (A longer version of this tour is available as a full day option - see option G on the Social Programme Registration Form).

Tour D - Powerscourt Gardens

Visit the famous Gardens of this demesne in County Wicklow. Powerscourt House, which was damaged by fire some years ago, is set in wonderful gardens including a Japanese Water Garden. The tour also includes a visit to the spectacular Powerscourt Waterfall. (Tea rooms and souvenir shopping facilities are available at Powerscourt).

Tour E - National Stud and Japanese Gardens

The County of Kildare, which lies south-west of Dublin, is the centre of Ireland's horse breeding and training. The National Stud is located just outside Kildare town and has produced many famous horses. It now also incorporates a horse museum. This tour also includes a visit to the famous Japanese Gardens, founded by Lord Wavertree and designed by the Japanese landscape designer, Eida, in 1906. The gardens are famous for the symbolism of the 'Life of Man'.....which path will you choose?

Tour F - Boyne Valley Tour

This tour is probably the best introduction to Ireland's history from stone age times to the present day. Our journey takes us along the banks of the River Boyne to Newgrange or Knowth, pre-historic burial grounds. The tour includes a visit to the village of Slane, situated at the foot of the hill where St Patrick reputedly first preached Christianity to the Irish in the year 432 AD. Monasterboice is famous for its sculptured Celtic crosses. (A longer version of this tour is available as a full day option - see option H on Social Programme Registration Form).

Tour G - Full day Wicklow Tour

(Includes visits to Glendalough and Russborough House, also includes lunch).

Tour H : Full day Boyne Valley

(Includes visits to Monasterboice and Mellifont Abbey, also includes lunch).

In addition to the formal tours listed on the form, the congress secretariat will be happy to arrange specialist tours for the bird-watchers, botanists and zoologists among you on request. Dublin has several major sites of scientific interest and the North Bull Island in Dublin Bay is a site of International Scientific interest for bird-watchers and botanists.

We can also suggest a range of afternoon hill walking options on Wednesday afternoon (July 21st 1999), for those tired of sitting down and drinking! Included is a visit to a mountain top stone age passage grave and another to a raised bog (Ireland has some of the last remaining bogs of this type in the world). These tours will be organised subject to sufficient interest and will be very informal. Further details may be obtained from the Congress Secretariat (email cmothersill@rsc.iol.ie).

Note: special country wear / footwear recommended. These walks are for seasoned hill walkers only.

SIGHTSEEING OPTIONS FOR ACCOMPANYING PERSONS

One half day tour, in addition to the wednesday afternoon tour is included in the accompanying persons registration fee.

For details of the tours, please see the section on the Half Day Tour Options. Please indicate on the Social Programme Registration Form which additional half day tour is your preference.

Other sightseeing options

Half day and full days tours will be organised by Abbey Conference Services in addition to the tours which are included in the Congress Registration fee. These will operate on Monday July 19th, Tuesday July 20th and Thursday July 22nd 1999.

Specific dates and tour details are listed on the Social Programme Registration Form. Please indicate, and include payment for, those you wish to book.

Please note these tours are subject to a minimum of 20 persons participating and include an English speaking guide.

Full payment for tours is required when sending in the Social Programme Registration Form.

Play golf

Why not take on the challenge of an Irish golf course? A variety of courses surround the Dublin region. Details available on request.

EVENING SOCIAL OPTIONS FOR ALL DELEGATES

A number of varied and interesting entertainment options exist in Dublin and these may be pre booked or booked on-site during the Congress at the Social Programme Desk. Why not incorporate one of these evenings into your Congress itinerary? All social options are subject to availability.

Traditional Irish Evening

Visit one of Dublin's many traditional, city centre pubs and restaurants where you will be served dinner and entertained in traditional style by Irish balladeers and musicians. A variety of venues are available including Pier 32 and the Castle Inn.

Available Monday July 19th, Tuesday 20th and Wednesday July 21st 1999.

Price IR£29.00 per person (Transport not included).

Theatre Evening

Dublin is a city rich in literary tradition, so why not experience this tradition with a night at the theatre. Choose from The Abbey, Gate, Olympia and many more. We can arrange a post-theatre supper at one of Dublin's many fine restaurants. (Supplement will apply) Available Monday July 19th, Tuesday 20th and Wednesday July 21st 1999. Tickets subject to availability.

Guide Price IR£ 12 per person (transport and food not included).

Literary Pub Tour

A most ingenious crash course in Irish Literature - a humorous look at the work of Dublin's famous writers, with two actors visiting a selection of pubs and performing the works of well known writers - Beckett, Joyce, Swift, Wilde and Yeats to mention a few.

Price IR£ 9.00 (Literary entertainment / no transport or drinks included / city centre starting point).

Teen Programme

We will offer some options for our teen visitors, depending on the interest level. We can offer activity days in Wicklow, Ski Slope lessons, Sailing course in Dublin Bay, Kilmainham Goal visit. Please tick the appropriate box on the Congress Registration Form and we will forward information.

DUBLIN ATTRACTIONS AND PRE AND POST CONFERENCE TOURS

Dublin Attractions

Dublin is a city rich in heritage and culture. The following are just some of the essential and interesting sights which should not be missed.

The National Gallery of Ireland

The Gallery houses one of the finest existing collections of European Art. Major collections of Irish paintings are on permanent display. Lunch at the Gallery restaurant is a must.

The National Museum of Ireland

The Museum contains artefacts from 2000BC to the 20th century. The archaeological collections include the National Treasury (the Ardagh Chalice, Tara Brooch and Cross of Cong) and "Ór", the finest collection of prehistoric gold artefacts in Europe.

Dublin Castle

Dublin Castle is located in the heart of historic Dublin. A Viking Fortress stood on this site, a portion of which is on view to visitors. The Record Tower is the largest visible fraction of the original 13th century Norman Castle. The Castle is also home to the magnificent State Apartments.

Dublinia

Situated in the Old City, the Dublinia Exhibition charts Dublin's development from the arrival of the Anglo-Normans in 1170 to the closure of its monasteries in 1540. Excellent models and audio-visual presentations are available with interpretation in five languages.

Christchurch Cathedral

The oldest building in Dublin, founded in the year 1038. It contains many wonderful attractions including the 'Leaning Wall of Dublin' and the crypt which serves as a storehouse for many fascinating relics.

Shopping in Dublin

Shopping in Dublin is a very exciting experience! The city offers a wide variety of quality shops. Whether you are shopping for unusual gifts or *that* Dublin souvenir, there is something for everybody. Areas such as Grafton Street, the Royal Hibernian Way, St Stephen's Green Centre, Powerscourt Townhouse and Jervis Street Shopping Centre all contain a selection of quality shops, restaurants and pubs offering a wide selection of national and international taste and design in a friendly setting. Special gifts to buy in Dublin include Irish Linen, Waterford and other crystal and cut glass, tweed, báinín knitwear and other natural fabrics, Irish designer clothes, Irish art, and designer pottery. Irish traditional music on CD is also a popular souvenir.

In Search of Irish Language and Culture?

The Irish language is still used in certain Dublin pubs and Conradh na Gaeilge, Gael Linn and Comhaltas Céoltóirí Éirinn all provide information on the Irish language, cultural events and traditional music. A great evening's entertainment can be had at a Céilí where it is possible to participate in traditional Irish folk dancing and singing. Contact the Congress Secretariat for details.

PRE & POST CONFERENCE TOURS

For delegates who wish to extend their visit to Ireland before or after the Conference, the following are just some suggestions to get you on your way! Abbey Conference Services can assist you with putting together a suitable itinerary to suit your requirements.

Car Hire

Car hire can be easily arranged and can be waiting for you on your arrival in Dublin. Abbey Conference Services can make the necessary arrangements so please contact their office if you require this service. Car hire can also be arranged by Abbey Conference Services on site at the Conference.

Accommodation

There is a wide variety of accommodation from which to choose. Hotels range from luxury castles to modern hotels and family run establishments. The following are some suggestions. Abbey Conference Services provide a central reservations service and would be happy to make the necessary reservations for you.

Irish Homes and Farmhouses

This informal type of accommodation gives you the opportunity to share in the life of an Irish family in an urban or country setting. It may be in a Georgian building, a modern bungalow or traditional cottage. All homes used are approved by Bord Fáilte - the Irish Tourist Board.

Hotels

Hotels include luxury castles, modern establishments and elegant country houses. You can choose your location from the remote countryside to the centre of towns and cities.

Ireland's Blue Book

This is a unique association comprising of Ireland's most charming country houses and restaurants. The premises included will appeal to the visitor who is searching for high standards of traditional hospitality, accommodation and fine cuisine amidst the quiet beauty of rural Ireland. No two properties are ever the same, and each gives a different flavour and atmosphere where you will experience genuine friendliness in relaxed surroundings.

The Hidden Ireland

This organisation offers the more adventurous visitor a chance to sample Irish country life at its best. The houses included in this association are not hotels, but buildings of architectural merit and character with unusual and interesting owners who all enjoy sharing their homes and their way of life.

July is high season in Ireland. It is strongly recommended to pre book your options early.

LOCAL INFORMATION

Ireland

Ireland, the fabled "Emerald Isle" lies on the western seaboard of Europe and is a large island noted for the natural beauty of its coastline and countryside. With a population of around 4 million in an area half the size of the UK, the countryside outside of Dublin is very sparsely populated. The main activities are farming and tourism. As well as its unspoilt environment, Dublin, the capital and conference venue, is a vibrant city of culture, rich in history and heritage, which maintains a wonderful friendliness. The countryside is easily accessible by car, rail or bus, but it should be noted that "unspoilt" means exactly that!

Weather

Ireland enjoys a temperate maritime climate - no place is more than 121 kms from the sea. June, July and August are the warmest months. The weather in Dublin during July is usually mild and very pleasant but rain is what makes Ireland green and no one should visit the country without being prepared for some light showers. Light rainwear is therefore recommended.

Currency

The Irish punt or pound is the unit of currency.

Banks

Banks are open Monday - Friday, 10.00 - 16.00hrs. Most banks open until 17.00hrs on Thursdays. Facilities are available on the congress site.

Credit Cards

All leading credit cards are widely accepted.

Official Carrier

Aer Lingus has been appointed official carrier to the Congress and has supported the development of the conference since it was obtained for Ireland. The Airline is famous for its friendly service and we request that you consider a booking on Aer Lingus first. To avail of special conditions on airfares, delegates should contact their local Aer Lingus offices.

CITY	TELEPHONE
Amsterdam	020 623 8620
Birmingham	0121 631 4680
Brussels	02 548 9848
Copenhagen	33 126 055
Düsseldorf	0211 323 0231
Frankfurt	069 292 054
Glasgow	0141 248 4341
London	0181 899 4747
Madrid	91 541 4216
Manchester	0161 832 5771
Milan	02 7600 0080
Paris	01 4742 1250
Rome	06 481 8518
Stockholm	020 795 251
Zürich	01 211 2850
USA/Canada	1800 221 8747

Passports and Visas

Passports or identity documents are required by all overseas delegates at point of entry. Visas may be required by non-EU nationals. Delegates transiting through London may encounter difficulties if the EU entry papers are not in order and deportation does occur. Information on exact requirements should be obtained from your local Irish Embassy, tourist office or travel agent. As visa processing may take time, we recommend that you apply for your visa as early as possible and at least 3 months before you intend to travel. We cannot overstress the importance of this and would especially urge non US nationals resident in the US and non EU nationals living in the EU, (especially in the UK, even though passports are not required USUALLY for travel to Ireland) not to ignore this information and to check requirements carefully. Do not forget that persons travelling with you will also require visas. The Congress Secretariat will supply letters if requested showing proof of registration / invitation.

Transportation

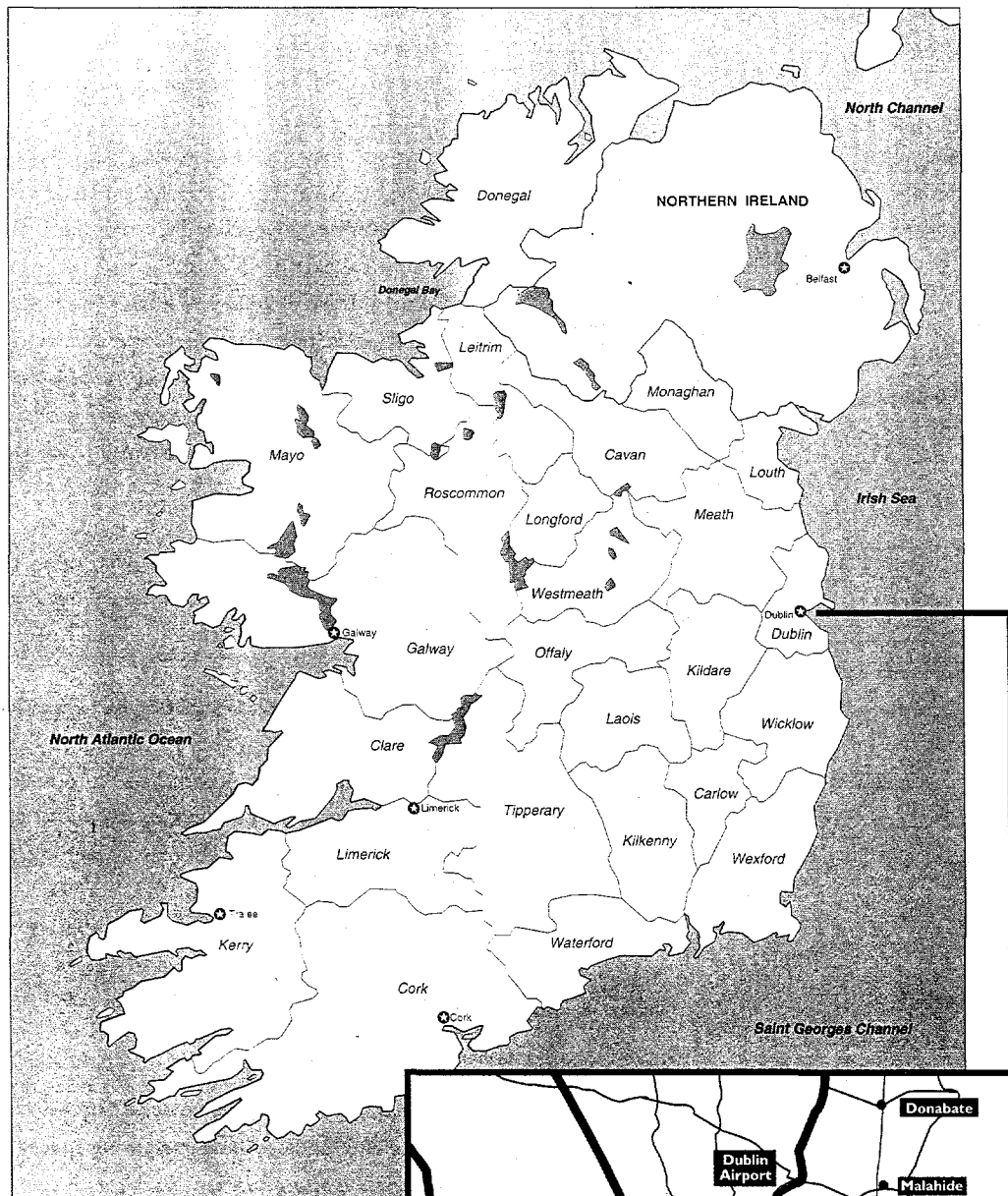
Public transport is available from the city centre to the congress venue, it is serviced by bus numbers 10, 11B & 46A. Bus passes are being negotiated for all delegates and accompanying persons. Ample car parking is available.

A shuttle service will operate in the morning and evening time during the Congress. Final details will be contained in the Congress Programme.

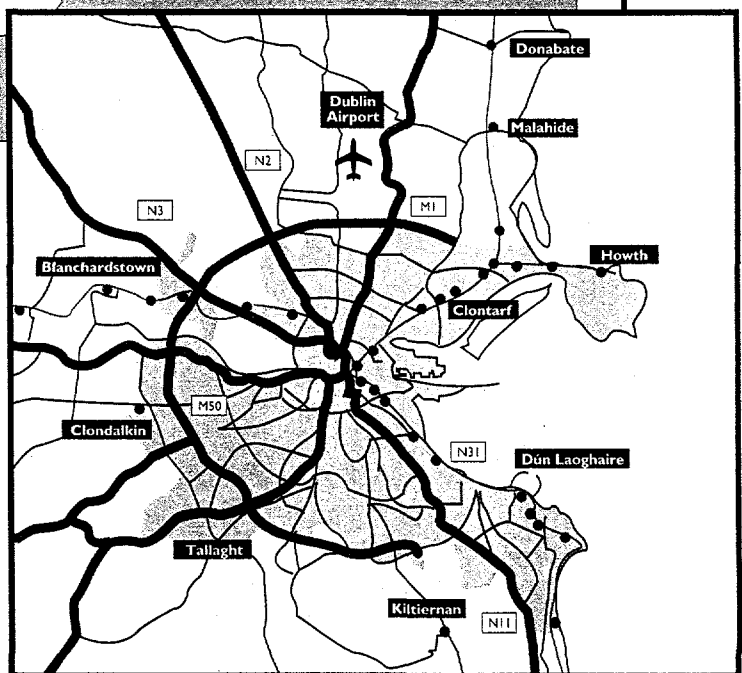
Persons with Disabilities

Disabled access is available at all UCD venues and disabled persons or those requiring special help should contact the Congress Secretariat with specific queries.

COUNTRY AND CITY LOCATION



Ireland - counties and main cities



Greater Dublin Area

PROVISIONAL SCIENTIFIC PROGRAMME

The programme will consist of congress lectures, symposia and workshops/poster discussion sessions. In addition six prestigious award lectures will be presented at the meeting. Updated details of the conference programme as it evolves may be found on the ICRR web site linked to the Radiation Research Society site: <http://www.cjp.com/radres/HTML/ICRR.htm>
The provisional programme is given below:

SUNDAY 18TH JULY

The congress will be opened by her Excellency President Mary McAleese, Uachtarán na hÉireann. The opening ceremony will be followed by an inaugural lecture by Prof. Antony Clare, Professor of Psychiatry at St. Patrick's Hospital, Dublin and well known broadcaster, on...

Risk Perception

This will be followed by a Welcome Party (food, drink and craic)

2 pm - 4 pm Parallel Symposia

Chemistry **RRS Presidential Symposium**

Chair Bernhard (USA)

DNA damage distribution- Influence of structural and redox properties of DNA

Speakers O'Neill (UK), Spothem-Maurizot (Fra), Tullihus (USA), Bernhard (USA)

Biology **Genomic Instability I**

Chair Wright (UK)

Speakers Little (USA), Ullrich (USA), Lambert (Sweden), Morgan (USA), Auerbach (USA)

Biology **Cell cycle**

Chair Downes (Irl)

Speakers Elledge (USA), Carr (UK), Yanagida (Japan), Nurse (UK)

Medical **Treatment planning advances**

Estro Symposium

Envlindustry **Semi-natural ecosystems**

Chair Belli (Italy)

Speakers Belli (Italy), Rafferty (Ireland), Bunzl (Germany), Delvaux (Belgium), Moberg (Sweden)

Envlindustry **Marine Radioecology,**

Chair Gomez (USA)

Speakers Fisher (USA), Fowler (Monaco), Cherry (S.Africa), Carvahlo (Portugal)

MONDAY 19TH JULY

8 am - 9.30 am **Workshops/Poster Discussion Sessions**

9.30 am - 10 am **Coffee and Posters**

10 am - 1pm **Parallel Congress Lectures**

Medical **Gaps in Radiotherapy - How LQ modelling can help minimise loss of tumour control**
Fowler (Netherlands)

Chemistry **Non-targeted effects and DNA models**
WARD (USA)

Biology **Genomic instability; Manifestations and Mechanisms** Wright (UK)

11 am - 12 noon **Plenary Lecture**

BACQ AND ALEXANDER AWARD

Hosted by ESRB

12 noon - 2 pm **Lunch and Posters/Exhibition**

4 pm - 4.30 pm **Tea**

4.30 pm - 6 pm **Symposia**

Biol/Med: **p53 and radiation response**
Co- Chairs Hall and Masters (UK)

Medical: **Normal tissue injury**
Chair Anscher (USA)
Speakers Anscher (USA), Story (USA),
Peacock (UK), Tucker (USA)

Chemistry: **Radiation chemistry studies of novel materials,**
Chair Belloni (France)
Speakers Karmat (USA), Malvaney (Australia),
Belloni (France), Van de Craats (Neth).

Physics: **Models from radiation tracks to molecular damage and cellular effects**
Chair Goodhead (UK)
Speakers Goodhead (UK), Pimblott (USA),
Sanche (Canada), Ottolenghi (Italy)

Env/industry: **Radiation Epidemiology**
Chair Boice (USA)
Speakers Boice (USA), Preston (Japan),
Darby (UK), Shilnikova (Russia)

6 pm - 7 pm **Gray lecture hosted by ICRU**

7 pm **Optional Social Events**

TUESDAY 20TH JULY

8 am - 9.30 am **Forum on the linear/
threshold (LNT)**
debate organised by K. Mossman (USA)

9.30 am - 10am **Coffee and Posters**

10 am - 11am **Congress Lectures**

Chemistry: **Charge Migration in Organised
Molecular Fields**
John Warman (Netherlands)

Physics: **Radiation Physics for Space and
High-altitude Air travel**
Cucinotta (USA)

Biology: **Implications of bystander
effects for radiobiology**
Michael (UK)

Medical/Therapy: **The challenge and opportunity of
individual variation in response to
radiation therapy**
Brown (USA)

11am - 12 noon **IRRS Lecture**
Radiation research past and future
Fry (USA)

12 noon - 2 pm **Lunch and Posters**

2 pm - 4 pm **Symposia**

Physics: **Radiation tracks and their classification,**
Chair Paretzke (Germany)

Biology: **Genomic instability 2
(Delayed death / apoptosis)**
Chair Morgan (USA)
Speakers Mendonca (USA), Mothersill (Irl),
Limoli (USA), Suzuki (Japan), Lehnert (USA)

Chemistry: **Radiation chemistry in industry
and the environment**
Chair Buxton (UK)
Speakers Elliot (Can), Buxton (UK),
Cooper (USA), Sims (UK)

Medical: **Regulation of tumour blood flow**
Chair Hirst (Irl)
Speakers Hirst (Irl), Stratford (UK),
Vaupel (Germany), Jain (USA)

Env/industrial: **Plant symposium I Mutation Breeding**
Chair Cassells (Irl)
Speakers Malusznski (Austria)

Env/industrial: **A century of radon - do we know enough?**
Chair Brenner (USA)
Speakers Brenner (USA), Samet (USA),
Wichman (Germany), Darby (UK), Lubin (USA)

4 pm - 4.30 pm **Coffee and Posters / Exhibition**

4.30 pm - 6.30 pm **Symposia**

Biology **Mutagenesis**

Chair Waldren (USA),

Speakers Waldren (USA), Evans (USA),
Thacker (UK), Turker (USA), Liber (USA)

Biology **In vitro transformation**

Chair Riches (UK)

Speakers Riches UK, McCormick (USA),
Hei (USA), Dritschilo (USA), Rhim (USA)

Physics: **Numerical Dosimetry**

Chair Broerse (Netherlands)

Speakers Siebert (Germany), Zankl (Germany),
Chartier (France), Bielajew (Canada), Schultz
(Netherlands)

Medical **Radiation therapy in the treatment
of benign disease**

Chair Moriarty (Irl)

Speakers Seegenschmidt (Germany), Brady
(USA), Massullo (USA), Trott (UK)

Env/Industrial **Space radiation and interplanetary travel**

Chair Yang (USA)

Speakers Schimmerling (USA), Badhwar (USA),
Kiefer (Germany), Ando (China)

Env/Industrial **Radiation chemistry of Polymers and
Polymerisation**

Chair Cooper (Australia)

Speakers Tagawa (Japan), Mehnert (Germany),
Luthjens (Netherlands), Pommery (Australia)

6.45 pm - 7.45 pm **Faila Lecture.** This will be followed by
a reception hosted by the US Radiation
Research Society.

WED 21ST JULY

8 am - 10 am **Symposia**

Physics **Physical aspects of electromagnetic
radiations on biological systems**

Chair Valberg (USA)

Speakers Valberg (USA), Tenforde (USA),
Grandolfo (Italy), Neumann (Germany)

Biology **Adaptive responses**

Chair Joiner (UK)

Speakers Joiner (UK), Wojcik (Germany),
Lambin (Belgium), Rigaud (France), Robson (Irl)

Medical **Normal tissue predictive testing**

Chair Travis (USA)

Speakers Travis (USA), Rodemann (Germany),
Tofilon (USA), LeFaix (France)

Chemistry **Synchrotron Radiation: Probes
of track structure**

Chair Holyroyd (USA)

Speakers Holyroyd (USA), Kobayashi (Japan),
Gould (USA)

Env/Industrial **UV and skin carcinogenesis**

Chair Tyrell (UK)

Speakers Tyrell (UK), de Gruijil (Netherlands),
Young (UK), Black (USA), Takebe (Japan)

Env/Industrial **Plant symposium 2 Plants as monitors of
radiation in the environment**

Chair Bornman (Sweden)

Speakers Bornman (Sweden)

10 am - 10.30 am **Coffee and Posters**

10.30 am - 11.30 am **Congress Lectures**

Medical/Biology **Radiation Carcinogenesis; Will
"how" help to tell us "how much"?**
Hall (USA)

Biology **Mitochondrial control of DNA
damage response**
G. Kroemer (France)

Physics **Synchrotron Radiation and Radiation
Biology: 25 year history and perspective**
Ito (Japan)

Biology **Fixation and developmental effects of
DNA damage**
Streffer (Germany)

11.45 - 12.45 **Kaplan Award Lecture**

Afternoon Free for Tours

THURS 22ND JULY

8 am - 9.30 am **Workshops/Poster
Discussion Sessions**

9.30 am - 10 am **Coffee / Posters**

10 am - 11 am **Congress Lectures**

Medical **Modern biology and technology
combined in cancer improvements**
(Bartelink) Netherlands

Biology **The discovery of a "Biological Rosetta
Stone": its implications for radiation and
chemical-induced carcinogenesis.**
Trosko (USA)

Chemistry Hatano (Japan) to offer title

Physics Amaldi (Switzerland) To offer title

11 am - 12 noon **Weiss Medal lecture**

12 noon - 2pm **Lunch/Posters/Exhibition**

2 pm - 4 pm **Symposia**

Biology **DNA Repair**
Chair McMillan (UK)
Speakers McMillan (UK), Jeggo (UK), Wallace
(USA), Hoejmakers (Netherlands)

Chemistry **Chemical aspects of high LET radiation**
Chair LaVerne (USA)
Speakers LaVerne (USA), Katsumura (Japan),
Hickel (France), Goulet (Canada)

Medical **DNA damage assays**
Chair McKelvey-Martin (Irl)
Speakers Sperling (Germany),
Dewey (USA), Begg (Netherlands), West (UK),
Pantelias (Greece)

Medical **Nitric oxide**
Chair Stratford (UK)
Speakers Mitchell (USA), Dewhirst (USA),
Everett (UK), Charles (UK)

Env/Industrial **Plant symposium 3: Irradiation of
food to enhance safety and quality**
Chair Loaharanu (Austria)

4 pm - 4.30 pm **Coffee/Posters/Exhibition**

4.30 pm - 6.30 pm **Symposia**

Physics **Microbeam probes of radiation effects**
Chair Prise (UK)
Speakers Prise (UK), Braby (USA),
Miller (USA), Kobayashi (Japan)

Biology **Potential role of radiation-induced
epigenetic events in carcinogenesis**
Chair Trosko (USA)
Speakers Boothman (USA), Kamrin (USA),
Watanabe (Japan), Potten (UK)

Medical **Radiation inducible proteins**
Chair Woloschak (USA)
Speakers Woloschak (USA), Martin (France),
Boothman (USA), Rahmsdorf (Germany),
Ono (Japan)

Medical **Head and Neck cancer: biological model
for clinical radiation research**
Chair Peters (Australia)
Speakers Sidransky (USA), Weichselbaum
(USA), Overgaard (Denmark), Harari (USA),
Peters (Australia)

Biology **Sensing damage in DNA**
Chair Lavin (Australia)
Speakers Lavin (Australia), Rotman (Israel),
Giaccia (USA), Abe (Japan)

Physics/Biology **Hot Particles**
EULEP symposium

7.30 pm **Congress Finale Event**

FRIDAY 23RD JULY

9 am - 10 am Congress Lectures

Env/Industrial **Thyroid cancers following irradiation: the world view**
Baverstock (Italy)

Env/Industrial **UV Research in Europe, Progress and future prospects**
Nolan CEC (Belgium)

Chemistry/Biology **Oxygen radical Biochemistry**
Riley (UK)

10.30 am - 12.30 am Symposia

Medical **Conformal therapy**
Chair Webb
Speakers Purdy (USA), Schlegel (Germany), Webb (UK), Williams (UK)

Medical **Combined Therapy**
(Irish Cancer Society symposium)

Chemistry **Free radical biochemistry-importance of radiation chemical approaches**
Chair Wardman (UK)
Speakers von Sonntag (Germany), Wardman (UK), Schoneich (USA), Merenyi (Sweden)

Physics **Auger electrons: Experimental and theoretical tools in radiation research**
Chair Martin (Australia)
Speakers Martin (Australia), Nikjoo (UK), Hieda (Japan), Stepanek (Switzerland), Howell (USA)

Env/Industrial **Biological effects of non-ionising electromagnetic radiations**
Chair J Arrand (UK)
Speakers Feychting (Sweden), Miyakoshi (Japan), Balcer-Kubiczek (USA), Arrand (UK)

Env/Industrial **Finding the sensitive sub-population - Biomarkers for radiation protection**
Chair Lechner (USA)
Speakers Lechner (USA), P. Virsik-Peuckert (Germany), Hahn (USA), Belinsky (USA)

12.30 am - 1 pm Closing Ceremony

ABSTRACTS

Abstracts for poster presentation/ poster discussion/ workshops and "hot topic" sessions are invited. Abstracts must fit in the space shown on the form provided and if not printed directly on the form **MUST** be accompanied by the completed abstract form. Abstracts which do not conform to the space requirements will have to be rejected. Please indicate the category which best describes your abstract on the form provided.

TOPIC CATEGORIES

Radiation Physics, Radiation Chemistry and modelling

1. Radiation physics and dosimetry
2. Electron transfer in biological media
3. Radiation chemistry
4. Biophysical and biochemical modelling
5. Mechanisms of DNA damage
6. Assays of DNA damage
7. Energy deposition in micro volumes
8. Photo-effects
9. Special techniques and technologies
10. Oxidative damage

Molecular and cellular effects

11. Photobiology
12. Cell cycle effects
13. DNA damage: Strand breaks
14. DNA damage: Bases
15. DNA damage: Non-targeted
16. DNA damage: other
17. Chromosome aberrations; clonal
18. Chromosomal aberrations; non-clonal
19. Interactions: Heat/Radiation/Drugs
20. Biochemical effects
21. Protein expression
22. Gene induction
23. Co-operative effects
24. "Bystander" effects
25. Oxidative stress effects
26. Recovery from radiation damage

DNA damage and repair

27. DNA repair genes
28. DNA repair deficient diseases
29. DNA repair enzymology
30. Epigenetic effects on repair
31. Ataxia and ATM

Genomic Instability

32. Endpoints of genomic Instability
33. Lethal mutations/delayed death
34. Delayed apoptosis
35. Chromosomal instability
35. In vivo effects
36. Genetic predisposition to instability
37. Mechanisms of genomic instability
38. Transmission of genomic instability
39. Genomic instability and cancer
40. Genomic instability and radiotherapy

Carcinogenesis and mutagenesis

41. Mutagenesis: Cellular
42. Mutagenesis: Molecular
43. Human cancer genetics
44. Transformation: models
45. Transformation: mechanisms
46. In vitro: in vivo systems
47. Epithelial cell transformation
48. Carcinogenesis: animal studies

In vivo and clinical studies

49. Growth factors and cytokines
50. Treatment planning
51. New therapeutic approaches
52. Combined modality
53. Predictive assays: tumour tissue
54. Predictive assays: normal tissue
55. Radiosensitisers
56. Tumour blood flow
57. Tumour biology/micro environments
58. Photodynamic therapy
59. Fractionation
60. High LET effects
61. radiosurgery
62. Normal tissue radiobiology
63. Cell kinetics
64. Metabolic imaging

Accidents and risk assessment

65. Radiation accident studies
66. Marine radioecology
67. Terrestrial radioecology
68. UV / Ozone depletion
69. Radon
70. Non ionising ER
71. Other category (Specify)

INTERNET

The ICRR web site is at

<http://www.cjp.com/radres/HTML/ICRR.htm>

There will be links from the Radiation Research Society site and from the Dublin Institute of Technology site. The web site will be updated regularly with programme details as these become available. The Conference has a dedicated email address, ICRR@iol.ie and queries can also be addressed to the secretariat using the existing address cmothersill@rsc.iol.ie

SATELLITE MEETINGS

At the present time we have been notified of the following meetings taking place in Ireland around the time of the ICRR meeting.

Ataxia meeting 23-25 July

Venue: West of Ireland

Organiser: Prof Martin Lavin, QIMR, Brisbane, Australia

Phone: +61 7 3362 0222

Fax: +61 7 3362 0111

email: martinl@qimr.edu.au

In vitro transformation meeting 24 -25 July

Venue: Cork, South of Ireland

Organiser: Prof John Rhim, USA

Phone: + 1 301 846 1591

Fax: + 1 301 846 6164

email: rhimj@mail.ncifcrf.gov

Ageing, nutrition and radiation 25 - 27 July

Venue: Coleraine, North of Ireland

Organiser: Prof. Stephen Downes, Ireland

Phone: + 44 1 265 324121

Fax: + 44 1 265 324965

email: downes@ulst.ac.uk

Tumour microenvironment workshop series 15 -17 July

Venue: Jordanstown Co. Antrim

Organiser: Prof David Hirst

Phone: + 44 1 232 368897

Fax: + 44 1 232 366808

email: DG.Hirst@ulst.ac.uk

Information on other related meetings will be put on the web site.