

2010 ISOE INTERNATIONAL SYMPOSIUM

Fitzwilliam College
CAMBRIDGE, UNITED KINGDOM
17-19 November 2010

Provisional Programme

Organised by



Supported by



IAEA

The European Technical Centre of the Information System on Occupational Exposure (ISOE) is pleased to organize, in collaboration with the Sizewell B Nuclear Power Plant from British Energy, the 2010 ISOE International Symposium on Occupational Exposure Management at Nuclear Facilities. The Symposium will be held in Cambridge, United Kingdom, from 17th to 19th November 2010. It is co-sponsored by the OECD Nuclear Energy Agency (NEA) and the International Atomic Energy Agency (IAEA).

The Symposium is targeted at all those concerned with radiological protection at nuclear power plants: radiation protection managers and staff members, maintenance and operation planners, contractors, exposed workers, regulatory body representatives and international organisations. It is also opened to research reactors and professionals from other nuclear fuel cycle installations that have common radiological protection problems with nuclear power plants.

Since the beginning of nuclear power plants' operation, an important patrimony of knowledge and knowhow in the field of radiation protection has been built. In this period where new nuclear energy programmes are undertaken and where the crucial question of competences' renewal is emerging, it is now necessary to consolidate this patrimony and to develop adequate ways of to transmit it to the next generations.

Dealing with radiation protection at the design, operation and decommissioning stages of installations, this new meeting point of radiation protection professionals under the heading of ISOE will be a great opportunity to share, at the international level, experiences and practices favouring the management of occupational exposures and the optimisation of radiation protection. Furthermore, the accompanying Technical Exhibition will give participants the opportunity to see the latest developments from industrial and commercial companies active in fields of radiation protection.

We look forward to welcoming you in Cambridge, in the Fitzwilliam College, hoping that this great place of knowledge development and sharing will contribute to learn from each other and work together towards a continuous improvement of radiation protection.

Caroline SCHIEBER
Head of ISOE-ETC
On behalf of the Programme Committee

PROGRAMME COMMITTEE MEMBERS

Gonzague ABELA	<i>EDF DIN – France</i>
Lucie D'ASCENZO	<i>ETC, CEPN – France</i>
Coralie BADAJOZ	<i>ETC, CEPN – France</i>
Tibor BUJTAS	<i>Paks NPP – Hungary</i>
Lubomir DOBIS	<i>Bohunice NPP – Slovak Republic</i>
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John HUNT	<i>IAEATC, IAEA</i>
Timo KONTIO	<i>Loviisa NPP – Finland</i>
Hans MEIJER	<i>Borssele NPP – The Netherlands</i>
David MILLER	<i>NATC, University of Illinois – USA</i>
Xavier NIEL	<i>ASN – France</i>
Thanh Trung NGUYEN	<i>Electrabel GDF-SUEZ – Belgium</i>
Guy RENN	<i>Sizewell B Power Station – United Kingdom</i>
Caroline SCHIEBER	<i>ETC, CEPN – France</i>
Torgny SVEDBERG	<i>Ringhals NPP – Sweden</i>
Thomas TAYLOR	<i>VGB PowerTech e.V. – Germany</i>
Harald WELLER	<i>Gösgen NPP – Switzerland</i>

CONFERENCE LANGUAGE

The conference language will be English

DEDICATED MEETINGS

TUESDAY 16 NOVEMBER 2010

The ISOE Symposium will be preceded by two dedicated meetings devoted to specific audience.

If you wish to participate to one of those meetings, please contact the relevant person as indicated below in order to register to one of these meetings.

The registration to these meetings is free of costs.

Regulatory Body representatives meeting

09h00 – 17h00 Room: Old Library 1

Contact-person:

Swen-Gunnar JAHN, ENSI, Email: Swen-Gunnar.Jahn@ensi.ch

Radiation Protection Managers meeting

09h00 – 17h00 Room: Reddaway Room

Contact-persons:

Guy RENN, Sizewell B NPP, Email: guy.renn@british-energy.com

Gonzague ABELA, EDF, Email: gonzague.abela@edf.fr

2010 ISOE INTERNATIONAL SYMPOSIUM PROVISIONAL PROGRAMME

WEDNESDAY 17 NOVEMBER 2010

- 08h00 – 8h30 Registration
- 08h30 – 9h00 Opening Ceremony (ISOE, British Energy)

Session 1: RP at Design Stage of the Nuclear Power Plants
Chairpersons: Olvido Guzman (ASN, France), Guy Renn (Sizewell B NPP, United Kingdom)

09h00 – 09h30	<u>Keynote lecture:</u> The progress with the New Nuclear Build Generic Design Assessment – <i>K. Allars (HSE)</i>
09h30 – 09h45	Occupational radiation protection principles and criteria for designing new nuclear power plants - Introduction of the Case study - <i>E. Gaillard-Lecanu (EDF R&D), M. Pinak (OECD Nuclear Energy Agency), G. Frasch (Bundesamt für Strahlenschutz)</i>
09h45 – 10h00	Methodology for Ensuring the Integration of ALARA into the Design of the AP1000 – <i>E. Slobe, A. Wilmot (Westinghouse Electric Company LLC)</i>

10h00 – 10h45 *Coffee-break: visit of exhibition booths, posters*

10h45 – 11h00	ACR-1000 Design Features Minimizing Collective Occupational Radiation Exposures and Public Doses to ALARA – <i>S. Julien, B. Yue, L. Olayiwola, K. Hau (AECL)</i>
11h00 – 11h15	Radiation Protection in the design of the Flamanville 3 EPR – <i>N. Eglizaud, S. Moreau, Y. Beneteau (EDF-CNEN)</i>
11h15 – 11h45	Material Selection According to ALARA During Design Stages of EPR™ – <i>P. Jolivet and al (AREVA NP)</i>
11h45 – 12h00	Full Session Discussion

Session 2: RP Management (1)
Chairpersons: Timo Kontio (Loviisa NPP, Finland), Tasos Zodiates (British Energy, United Kingdom)

12h00 – 12h15	Practical Guides for the Integration of Radiation Protection from the Planning Stage of Jobs to the Realization and Feedback Experience – <i>G. Abela (EDF-DIN), P. Ridoux (EDF-CIPN), P. Le Genti (EDF-UTO)</i>
12h15 – 12h30	SAP Nuclear - a new software for radiation protection in Slovenské elektrárne / Enel company – <i>L. Dobiš (Bohunice NPP), Š. Grúbel (Mochovce NPP), F. Putignano (Enel)</i>
12h30 – 12h45	Further Development of the Weibull Distribution Method for Evaluating ALARA Performance – <i>E.L. Frome, J.P. Watkins, D.A. Hagemeyer (ORAU)</i>

12h45 – 14h15 *Lunch*

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WEDNESDAY 17 NOVEMBER 2010

Session 2: RP Management (2)

Chairpersons: **Timo Kontio** (Loviisa NPP, Finland), **Tasos Zodiates** (British Energy, United Kingdom)

14h15 – 14h30	A journey to excellence; transforming British Energy's Radiological Protection Programmes – <i>M. Mekisich (British Energy)</i>
14h30 – 14h45	Driving Performance Improvements with the Use of Performance Indicators – <i>P.A. Jones (Calvert Cliffs NPP)</i>
14h45 – 15h00	Operational Radiation Protection Self-Assessment Program – <i>M. Medrano, S. Zorrilla (Laguna Verde NPP)</i>
15h00 – 15h15	Using dose constraints as ALARA instruments – <i>V. Simionov, C. Chitu (Cernavoda NPP)</i>
15h15 – 15h30	Cook Unit 1 & 2 US Lowest PWR Refueling Outage Doses: ALARA Achievements & Lessons Learned – <i>C. Moeller (Cook NPP) – Distinguished Paper, Fort Lauderdale 2010</i>
15h30 – 16h00	Full Session Discussion

16h00 – 16h45 *Coffee-break: visit of exhibition booths, posters*

Session 3: Dosimetry and Measurement Materials

Chairpersons: **Willie Harris** (Exelon Nuclear, USA), **Torgny Svedberg** (Ringhals NPP, Sweden)

16h45 – 17h00	The Determination of when Routine Internal Dosimetry Monitoring Is Required – <i>G. Roberts (Nuvia Limited)</i>
17h00 – 17h15	Feedback experience on new Personnel Contamination Monitors at the exit of the RCA in the EDF NPP – <i>J. Fazileabasse (EDF R&D), N. Valendru (EDF-UNIE/GPRE)</i>
17h15 – 17h30	Operational Experience in the use of automated contamination survey techniques to improve site contamination surveys – <i>G. Renn (Sizewell B NPP)</i>
17h30 – 17h45	GAMPIX A New Generation of Gamma Camera for Hot Spot Localisation – <i>F. Carrel, K. Boudergui, M. Agelou, M. Gmar, V. Schoepff (CEA)</i>
17h45 – 18h15	Full Session Discussion

Optional visit: Cambridge City "Ghost Tour"

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THURSDAY 18 NOVEMBER 2010

Session 4: Source-Term Management

Chairpersons: **Gérard Cordier** (EDF, France), **Harald Weller** (Gösgen NPP, Switzerland)

08h30 – 09h00	Pressurized Water Reactor Primary Chemistry Initiatives and Impact on Plant Dose Rates – <i>D. Perkins, C. Haas, D. Hussey (EPRI)</i>
09h00 – 09h15	EDF Measurement Program for Source Term Reduction – <i>G. Ranchoux (EDF-SEPTEN), A. Rocher, G. Machicoane (EDF-UNIE/GPRE), M. Wintergerst (EDF-CEIDRE), G. Cordier (EDF-DPN), J. Bonnefon, L. Guinard (EDF-SEPTEN)</i>
09h15 – 09h30	Dose Rate Reduction Methods at Shimane Nuclear Power Station – <i>T. Kanaoka, H. Kajitani, T. Sato (Chugoku Electric Power Company), N. Usui (Hitachi-GE Nuclear Energy) – Distinguished Paper, Aamori 2009</i>
09h30 – 09h45	Decontamination of the reactor system, Oskarshamn 1, Sweden – <i>R. Hanzl (Oskarshamn NPP)</i>
09h45 – 10h00	Full System Decontamination – Sustainable Dose Reduction for operating Nuclear Power Plants – <i>C. Stiepani (AREVA NP GmbH)</i>
10h00 – 10h30	Full Session Discussion

10h30 – 11h15 *Coffee-break: visit of exhibition booths, posters*

Session 5: Job Specific Experience (1)

Chairpersons: **Gonzague Abela** (EDF, France), **Staffan Hennigor** (Forsmark NPP, Sweden)

11h15 – 11h30	Steam Generator Replacement of the Belgian Doel 1 unit - Follow-up and on site dosimetry – <i>B. Walschaerts (Tractebel Engineering), J. Defloor, R. Wyckmans (Electrabel)</i>
11h30 – 11h45	An Overview of Angra 1 NPP after the Steam Generator Replacement Project and the Results for the subsequent outage – <i>M.A. do Amaral (Angra NPP) – Distinguished Paper, Vienna 2009</i>
11h45 – 12h00	Hot Topic Report of Bottom Header Defected, YGN 5 in 2003 – <i>Y.H. Youn (KHNP) – Distinguished Paper, Aamori 2009</i>
12h00 – 12h30	Full Session Discussion

12h30 – 14h00 *Lunch*

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Session 6: Learning from events in RP field

Chairpersons: **David Miller** (ISOE NATC, USA), **Wataru Mizumachi** (JNES, Japan)

14h00 – 14h15	Database of Radiological Accidents and Incidents in Industrial Radiography – <i>F.C.A. Da Silva, J.C. Leocadio (IRD)</i>
14h15 – 14h30	Radiation Protection Management and ALARA Lessons Learned during TMI refueling outage – <i>W. Harris (Exelon Nuclear) – Distinguished Paper, Fort Lauderdale 2010</i>
14h30 – 14h45	Spread of contamination through goods taken out from RCA - Lessons learned – <i>S. Hennigor, J. Uljons (Forsmark NPP)</i>
14h45 – 15h00	Conclusions from RPM meeting
15h00 – 15h15	Conclusions from Regulatory Body meeting
15h15 – 15h30	Full Session Discussion

15h30 – 16h15 *Coffee-break: visit of exhibition booths, posters*

Session 7: Job Specific Experience (2)

Chairpersons: **Vincent Holahan** (NRC, USA), **Vasile Simionov** (Cernavoda NPP, Romania)

16h15 – 16h30	Operational Dose Management during Vessel Entry Campaigns at Advanced Gas Cooled Reactors – <i>I. Goldsmith (Nuvia Limited)</i>
16h30 – 16h45	CANDU 6 Refurbishment and Optimization of Radiation Protection – <i>S. Alavi, J. Pequegnat (AECL) – Distinguished Paper, Vienna 2009</i>
16h45 – 17h00	Optimization of Occupational Exposure over the Planned Maintenance Works at Kalinin 1 and 2 Units – <i>B. Bezrukov (Concern Rosenergoatom), O. Bezrukova, V. Glasunov (VNIIAES), Y. Mamontov (Kalinin NPP)</i>
17h00 – 17h30	Full Session Discussion

19h00 *Bus for Congress Dinner*

20h00 *Congress Dinner at Imperial War Museum*

2010 ISOE INTERNATIONAL SYMPOSIUM PROVISIONAL PROGRAMME

FRIDAY 19 NOVEMBER 2010

Session 8: RP and Decommissioning

Chairpersons: **Swen-Gunnar Jahn** (ENSI, Switzerland), **Thomas Taylor** (VGB PowerTech e.V., Germany)

08h30 – 09h00	EDF General Methodology to assess worker exposition and environmental impact caused by work during dismantling - Lack of knowledge and tracks to improve it – <i>G. Laurent (EDF-CIDEN)</i>
09h00 – 09h15	Assessment of the resuspension factor for alpha airborne particles applicable to dismantling of natural uranium graphite gas reactor sites – <i>M. Reynier, D. Hameau, E. Gaillard-Lecanu, J. Fazileabasse (EDF R&D), C. Rappet, A. Guesdon (EDF-CIDEN), M. Fattahi-Vanani (SUBATECH)</i>
09h15 – 09h30	JAVYS NPP - preparation for decommissioning – <i>J. Svitek, J. Kaizer (JAVYS NPP)</i>

09h30 – 10h00 *Coffee-break: visit of exhibition booths, posters*

10h00 – 10h15	Activities in José Cabrera Nuclear Power Plant (2009) – <i>M.A. de la Rubia, M. Rosales, G. Ponjuán, I. Calavia, T. Labarta (CSN)</i>
10h15 – 10h30	Radiological data from German Nuclear Power Plants During the Transition From Operation to Decommissioning – the Need for the Improved Data Acquisition Structure for Utilities under Decommissioning – <i>E. Strub, J. Kaulard, C. Schmidt (GRS)</i>
10h30 – 10h45	EPR Decommissioning by Design – <i>I. Terry (AREVA NP GmbH)</i>
10h45 – 11h15	Full Session Discussion

11h15 – 11h45 **Distinguished papers and Closure of the Symposium**

Chairperson: **Caroline Schieber** (CEPN-ISOE European Technical Centre)

Optional Technical Visits:

Buses will leave at 12h00 to Sizewell Power Station and return to Cambridge by 19h00.

Sizewell A NPP

Maximum 12 Persons

Sizewell B NPP

Maximum 12 Persons

GENERAL INFORMATION

How to get to Cambridge

The City of Cambridge is located in the East of England, 50 miles north of London. It is well served by road and rail links, and is within easy distance of the major London airports.

London to Cambridge by Train

There is a fast and frequent rail service (<http://www.nationalrail.co.uk/>) from London King's Cross & London Liverpool Street through to Cambridge. Fast trains to Cambridge Station leave from London King's Cross every half hour. The journey takes about 45 minutes.

London to Cambridge by Bus

National Express (<http://www.nationalexpress.com/>) operates coach services to Cambridge from major towns & cities throughout the U.K.

Buses from London to Cambridge take 2hr 10min. Buses leave hourly between Victoria Coach Station in London and Cambridge Parkside Coach Station.

From London Airports to Cambridge



London Stansted is the nearest international airport to Cambridge, located just 25 miles to the South of the city.

From Stansted, Cambridge can be reached by:

- Coaches: 50min travel –

<http://www.nationalexpress.com/Airport/index.cfm>

- Trains: 37min or 55min travel –

<http://www.crosscountrytrains.co.uk>

From Gatwick and Heathrow you can catch a direct train (2 hours travel):

<http://www.crosscountrytrains.co.uk>

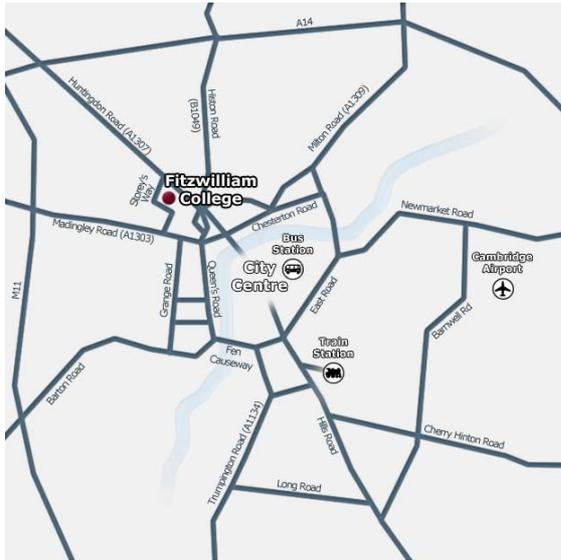
London to Cambridge by Car

Cambridge is 63 miles northeast of London via the M11 motorway. It takes about 1hr 45min to drive.

GENERAL INFORMATION

How to get to Fitzwilliam College

Storey's Way, Cambridge, CB3 0DG - <http://www.fitz.cam.ac.uk>

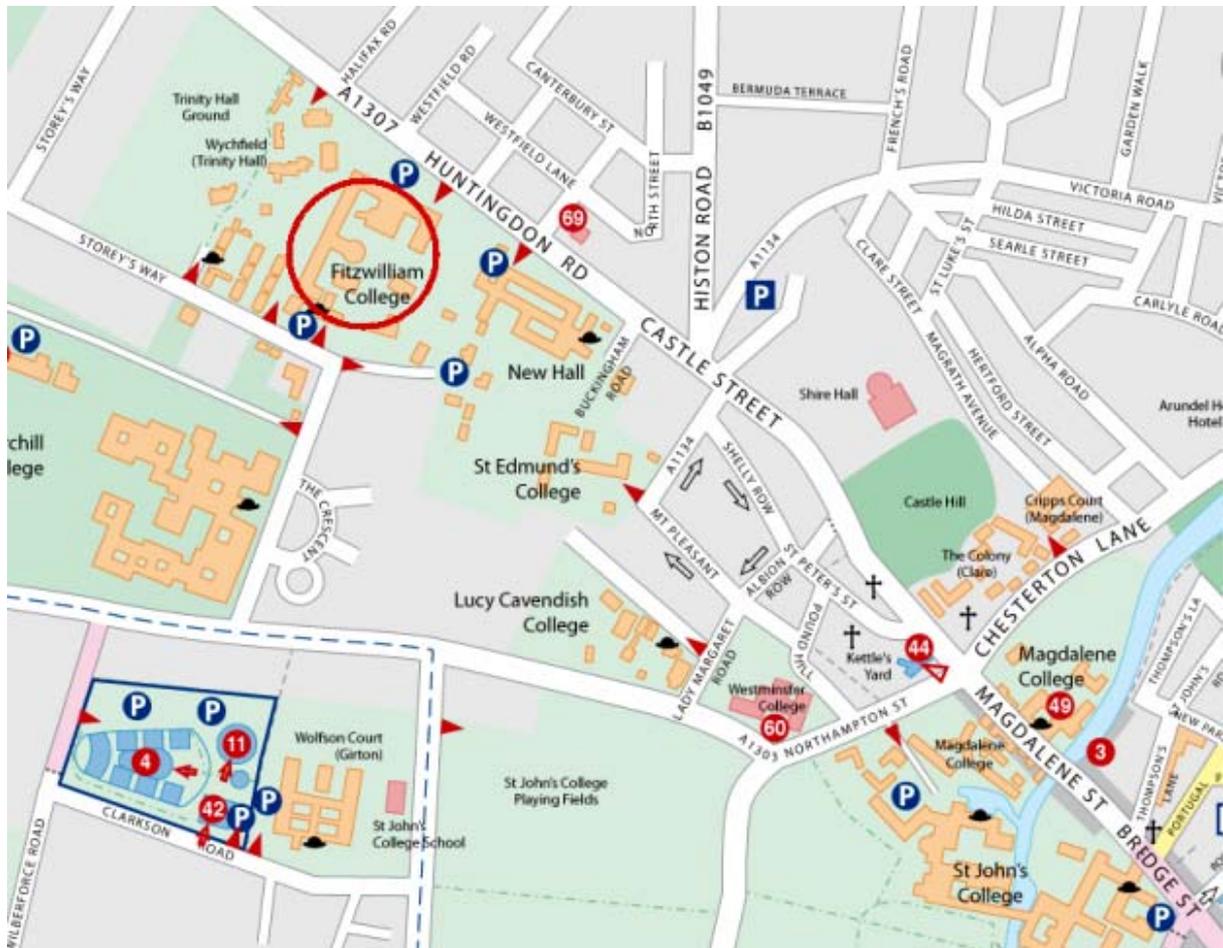


✚ From the train station

The train station is situated on the South of Cambridge City Centre, and Fitzwilliam can easily be reached using taxis or buses. Alternatively, it is about a 45 minutes walk. The town centre is approximately half way between the station and the College, allowing you to walk half and catch a bus for the other half if you choose.

✚ From the Bus Station

The National Express, Stagecoach and regional buses all stop at the Drummer Street/ Emmanuel Street Bus Station in the City Centre. Walk towards Robert Sayle and from there you can take a taxi or catch a bus. There is a stop directly outside the College on *Huntingdon Road* (line Citi5 and Citi6). After 6.30pm you are advised to take a taxi.



GENERAL INFORMATION

Registration fees

The registration fees for the 2010 ISOE symposium are 450 euros. This includes the participation to the Symposium, the book of abstracts, the lunches, the visits and the congress dinner.

Posters

A poster exhibition will take place simultaneously with the Symposium Conference. It remains possible to propose your contribution until 15th of October by sending an abstract and/or a full paper to the following email address: dascenzo@cepn.asso.fr

Authors

Authors will be individually informed by the Programme Committee on the details concerning their papers. The papers must be received by the 15th of October 2010.

Exhibition Booths

A technical exhibition will take place simultaneously with the Symposium conference. Coffee-breaks will be held in the exhibition area. Some exhibition spaces are still available and registrations are accepted until the end of October 2010.

Information

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CEPN

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Email: dascenzo@cepn.asso.fr

GENERAL INFORMATION

Accommodation

Room pre-reservations are made by the Organising Committee in 7 hotels that offered a lower price for all participants in the Symposium. The allotments are valid until the **1st of October 2010**. Participants make their own reservations and settle the bill themselves. Please book the hotel rooms as soon as possible.

Please quote the allotment code “**ISOE**” when making a booking.

Hotels	Rates (per room, per night, including breakfast and VAT)
 Best Western Gonville Email: info@gonvillehotel.co.uk Website: www.bw-gonvillehotel.co.uk Tel: +44 1223 366611 / Fax: +44 1223 315470	£124.50
 Lovell Lodge Email: info@lovell-lodge.co.uk Website: http://www.lovell-lodge.co.uk Tel: +44 1223 425478 / Fax: +44 1223 426581	£45.00
 Regent Email: reservations@regenthotel.co.uk Website: www.regenthotel.co.uk Tel: +44 1223 351470 / Fax: +44 1223 464937	Double room: £103.50 Single room: £94.50
 Felix Email: help@hotelfelix.co.uk Website: www.hotelfelix.co.uk Tel: +44 1223 277977 / Fax: +44 1223 277973	Kingsize rooms: Single occupancy: £132.00 Double occupancy: £162.00
 Royal Cambridge Email: royal.cambridge@forestdale.com Website: www.forestdale.com Tel: +44 1223 351631 / Fax: +44 1223 352972	£100.00
 Doubletree by Hilton Email: abbie.mcccrossen@hilton.com Website: www.doubletreecambridge.com Tel: +44 1223 259988 / Fax: +44 1223 316605	Standard King rooms: Single occupancy: £169.00 Double occupancy: £179.00
 University Arms Email: dua.sales@devere-hotels.com Website: www.devere-hotels.com Tel: +44 1223 273000 / Fax: +44 1223 273037	Single occupancy: £125.00 Double occupancy: £135.00



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