



An Association for Retired Professional Engineers

NEWS LETTER August 2011

PROGRAMME OF EVENTS 2011 - 2012

| | | |
|----------------------|-----------|---|
| 18 th Aug | Thursday | Coffee - at Spotted Cow, Angmering |
| 25 th Aug | Thursday | Coffee - with Partners at the Beach Hotel, Worthing (see page three) |
| 14 th Sep | Wednesday | Visit: Shoreham Lifeboat Station. 14:00 Start. 2 hour visit. |
| 15 th Sep | Thursday | Coffee - at Spotted Cow, Angmering |
| 20 th Sep | Tuesday | Talk: "Sir John Anderson 1814-86: The Unknown Engineer who made the British Empire Possible". by Mr Gwylim Roberts. RCEA Followed by the AGM. |
| 29 th Sep | Thursday | Coffee - with Partners at the Swallows Return, Worthing |
| 5 th Oct | Wednesday | Visit: Oldland Mill, Keymer. 2.30 pm |
| 11 th Oct | Tuesday | Talk: Restoration of Oldland Mill by Prof. Fred Maillardet. |
| 20 th Oct | Thursday | Coffee - at Spotted Cow, Angmering |
| 27 th Oct | Thursday | Coffee - with Partners at the Swallows Return, Worthing |
| 8 th Nov | Tuesday | Cooch Memorial Lecture: "Measuring Human Movement" by Prof Mike Whittle |
| 17 th Nov | Thursday | Coffee - at Spotted Cow, Angmering |
| 23 rd Nov | Wednesday | Visit: Siemens Railcare, Southampton. |
| 24 th Nov | Thursday | Coffee - with Partners the Swallows Return, Worthing |
| 30 th Nov | Wednesday | Annual Lunch and 60 th Anniversary – Windsor Hotel. |
| 13 th Dec | Tuesday | Talk: "The Research and Development of Two Channel Stereo". |

by Mr Jim Buckland RCEA.

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| 15 th Dec | Thursday | Coffee - at Spotted Cow, Angmering |
| 29 th Dec | Thursday | Coffee - with Partners the Swallows Return, Worthing |
| 10 th Jan | Tuesday | Talk: "History of RAF Tangmere 1916 to 1979." By Mr Dudley Hooley. Education Officer, Tangmere Military Aviation Museum. |
| 19 th Jan | Thursday | Coffee - at Spotted Cow, Angmering |
| 26 th Jan | Thursday | Coffee - with Partners (venue to be confirmed) |
| 14 th Feb | Tuesday | Talk: Domestic Solar Power - A Case Study by Charles Morgan, RCEA |
| 16 th Feb | Thursday | Coffee - at Spotted Cow, Angmering |
| 23 rd Feb | Thursday | Coffee - with Partners (venue to be confirmed) |
| 28 th Feb | Wednesday | Visit: Queens Harbourmaster, Portsmouth TBC |
| 13 th Mar | Tuesday | Talk: TBA |
| 15 th Mar | Thursday | Coffee - at Spotted Cow, Angmering |
| 22 nd Mar | Thursday | Spring Lunch - Northbrook College. TBC |
| 29 th Mar | Thursday | Coffee - with Partners (venue to be confirmed) |
| 11 th Apr | Wednesday | Visit: Back Stage Tour Theatre Royal, Brighton |
| 19 th Apr | Thursday | Coffee - at Spotted Cow, Angmering |
| 26 th Apr | Thursday | Coffee - with Partners (venue to be confirmed) |
| 15 th May | Tuesday | Outing: Bluebell Railway Carriage Works. |
| 17 th May | Thursday | Coffee - at Spotted Cow, Angmering |
| 31 st May | Thursday | Coffee - with Partners (venue to be confirmed) |
| 20 th Jun | Wednesday | Outing: Sussex Wildlife Trust, Henfield |
| 21 st Jun | Thursday | Coffee - at Spotted Cow, Angmering |
| 28 th Jun | Thursday | Coffee - with Partners (venue to be confirmed) |
| 18 th Jul | Wednesday | Outing: Tangmere Military Aviation Museum. |
| 19 th Jul | Thursday | Coffee - at Spotted Cow, Angmering |

26th Jul Thursday Coffee - with Partners (venue to be confirmed)

16th Aug Thursday Coffee - at Spotted Cow, Angmering

30th Aug Thursday Coffee - with Partners (venue to be confirmed)

All Talks and Meetings will commence at 2.30 pm and be held in the Chichester Room, Field Place, Worthing, unless another venue or time is indicated.

Timings for visits and outings will be as printed in the detailed description of the activity.

Coffee mornings commence at 10.30 a.m., except for the final meeting at The Beach Hotel, which is from 10.45 a.m. **Please note new venue for coffee mornings September – December 2011**

Beach Hotel Coffee Mornings

The August Coffee Morning will be the last one to be held at the Beach Hotel. These coffee mornings for members and guests have been taking place for over 40 years. It would be appropriate therefore if as many members and partners as possible could attend this, our last meeting there, to show our appreciation for the Hotel and its staff who have looked after us for so long.

Several members and their partners sometimes stay on after the coffee morning meetings to take a light lunch in the Hotel Restaurant. Since the RCEA has had a long relationship with the Beach, we believe it might be an appropriate time to celebrate the last 40 years by joining the regulars for the last opportunity to participate in an impromptu lunch at this venue. If you would like to join them, could you please let Brian Buckroyd know as soon as possible, or at the latest, on the day of the coffee morning so that he can arrange suitable seating for the whole group with the Hotel staff. Brian Buckroyd, telephone 01903 784926

Website for the RCEA

For latest information, log into www.rceasussex.org.uk

We have a links box on the front page that you can click on. The content here is to be increased (not much there at present) and if you have any web sites that you think would be of use to other members please send the web addresses to me via the Webmaster general link. The aim is to have a list of useful links that you can click on and go straight to the linked site.

Happy surfing,
Charles Morgan

Membership

Subscriptions 2011/2012

These are due on 1st October; can you please send your cheque for £12 to the Hon. Treasurer, J H Underwood, 168 Alinora Crescent, Goring by Sea, BN12 4HW
(Reply slip at end of newsletter.)

Hermann Rummeli (Member)

Hermann and Audrey Rummeli are both in a nursing home in Bolney. The address is Eastridge Manor Nursing Home, Wineham Lane, Bolney RH17 5SD Tel 01444881768

Stan Renew (Member)

Stan Renew is in a care home in Littlehampton. Oakland Grange St Floras Road Littlehampton BN17 6BB. Tel 01903 715995.

New Member

We have had no new members since the last Newsletter.

The next handbook will be published in September/October. Can all members please check that their address, telephone number and e-mail address, plus any other information in the current handbook is correct. If not, or you would like any other amendment, can you please inform the Hon. Secretary as soon as possible.

Talks by RCEA Members

Many of our members have given short talks to the membership at our Field Place meetings in the September to March sessions. We would like this feature of our talks programme to continue. The knowledge and experience many of our members have accumulated in their working lives is of interest to others. Some members feel that having left work a few years ago much of their knowledge may now be outdated and therefore of little current interest to our membership. This is not so. Some of our most interesting talks have been about engineering problems, solutions or developments our members have been actively involved in during the 1970's, 80's or 90's. If you would like to volunteer to give a short presentation on a topic of your choice, can you please contact Randy Kier our Programme Co-ordinator so that he can discuss the subject matter with you, agree a possible date for the delivery of the talk and arrange to furnish you with any assistance you may need.

Brief Detail – Talks, Outings and other activities April – August 2011

Visit to Shoreham Lifeboat Station. Wednesday 14th September 14:00.

The brand new RNLI Lifeboat Station houses the RNLI's new Tamar-class lifeboat and an inshore lifeboat. The station consists of a larger boat hall, crew training room, drying facilities for wet crew kit, changing facilities, two new slipways and a public viewing platform.

Shoreham Harbour Lifeboat Station, Kingston Beach, Brighton Road,
Shoreham-by-Sea, West Sussex, BN43 6RW

Can you please assemble at the Lifeboat Station at 13.45, the visit will take about 2 hours and there will be some steps to negotiate. There is adequate parking at the site so this should not be a problem.

There will be a charge of £2.50 for this visit.

(There is a very good website for the station (www.shorehamlifeboat.co.uk) for pre-information).

Contact: Tony Tomkins 01444 455025 or email tony.tomkins@bcs.org

Talk and AGM. Field Place Worthing Tuesday 20th September 14:30 **Sir John Anderson 1814-86: The Unknown Engineer who made the British Empire Possible, by Mr Gwylim Roberts RCEA** **(Followed by Annual General Meeting)**

An illustrated talk which reviews the life and achievements of Sir John Anderson who was the Woolwich Arsenal's Chief Engineer in the mid-Victorian period, which included the Crimean War.

Visit to Oldland Windmill, Keymer, West Sussex, Wednesday 5th October at 14.30.

A guided tour of Oldland Windmill, built in 1703 which has been restored to full working order by a group of volunteers.

The visit is limited to 18 members because of space considerations.

Please book a place on the visit by returning the Booking Form to Richard Norton by 29th September. The cost will be per person £2.50.

Directions below but there is **only** one Disabled car parking space at the Mill and if you wish to use this, please contact Richard. Wheelchair access is not possible. **Note: There is no parking available near the mill.**

The Postcode of the Mill is BN6 8ND; it is situated about half a mile north of Keymer off the B2116 Ockley Lane at the top of Mill Lane, which turns right off Ockley Lane just after the bend in the road. As implied, car access is not possible except for the one disabled driver.

Members are advised to park in the car park of the Thatched Inn (BN6 8DH) on the corner of Ockley Lane and Grand Avenue. The Mill is about a 10-minute walk from the Inn. Go north along Ockley Lane.

It is suggested that members may wish to meet for lunch at the Inn at, say 12.30. The Inn has an extensive and varied menu. Please indicate on the booking form if you are likely to have lunch.

Contact: Richard Norton 01 903 242204 email rwvnorton@iee.org

Talk, Field Place, Worthing Tuesday 11th October 1430
Restoration of Oldland Windmill, by Prof. Fred Maillardet, Chairman, Oldland Windmill.

An illustrated talk covering the history of Oldland Mill, its working life and decline after it was abandoned in 1912, and the reconstruction from 1980 until the present time.

Cooch Memorial Lecture, The Barn, Field Place, Worthing. Tuesday 8th November
14:30 Measuring Human Movement by Prof Mike Whittle

Prof Whittle pioneered the use of three-dimensional television/computer technology to study human walking, the main application being to assess children with cerebral palsy, prior to treatment. Further developments have led to it being used in a multitude of applications. The talk covers all of these aspects of human movement studies, illustrated by slides and movie clips.

The Barn, Field Place, The Boulevard, Worthing, BN13 1NP

Visit to Siemens Railcare, Southampton Wednesday 23rd November (tbc)

The Siemens Railcare facility at Northam in Southampton was purpose built about 5 years ago to maintain South West Trains fleet of Desiro 4 and 5 car electric units. These units were supplied by Siemens at about the same time and are used to run many of the services provided by South West Trains. Much of the work at this depot is done overnight with some quite major operations being performed before returning the trains for service the next morning. It is one of the most modern rail maintenance facilities in the country.

Contact: Dave Thomas 01243 586685 or email david_b.thomas@virgin.net

60th Anniversary Lunch Wednesday 30th November 12.00 for 12.30

Following last years highly successful Christmas lunch at The Windsor Hotel, this year another lunch will also be held there. As this is the 60th anniversary of our association it is intended to combine our Anniversary lunch and our Christmas lunch and it is hoped that a record number of guests will attend to mark these events.

The cost will be £25.00 per person and will include a "welcome drink". Please ask for drink ticket at reception.

Car parking is restricted at the hotel but tickets can be obtained at the reception desk to enable parking in a "residents only" bay. Disabled parking can also be arranged in the hotel car park if previously booked when applying for places.

The menu for the lunch is as follows: -

Starter:

Spiced Carrot and Red Lentil Soup *Garnished with crispy croutons*
Baked Mushrooms *Stuffed with Blue Cheese & fresh herb crumb*
Ardennes Pate *Served with melba toast and a sweet onion chutney*

Main Course

Traditional Roast Turkey and Honey Roasted Gammon *Served with sage and onion stuffing, Cumberland sausage & rich gravy*

Roasted Leg of Lamb *Served with a fresh tarragon sauce*

Salmon Fillet *Brushed with a chilli pepper butter and grilled*

Vegetarian

Vegetarian Cobbler *topped with a cheddar cheese and herb scone (Can be adapted to suit Vegans)*

Dessert

Christmas pudding *Served with Brandy sauce*

Chocolate and Brandy Torte *Garnished with fresh cream and chocolate sauce*

Open Choux Bun Filled with fresh winter fruits and vanilla cream

Coffee & Mints

Please apply early because places are limited. Reply slip at the end of this newsletter.

Talk, Field Place, Worthing Tuesday 13th December 14:30

The Research and Development of Two Channel Stereo. By Mr Jim Buckland RCEA.

There will be demonstrations of the original recordings and many examples of the evolution of stereophonic sound.

REPORTS

Visit

Wednesday, 11th May NATS London Area Control Centre, Swanwick

Eighteen members attended a morning visit to NATS. The visit was ably arranged by Mr Richard (Rick) Boden of NATS. The visit took the format of a presentation and facilities tour. Rick, who was assisted by Ian Brundy, a NATS Engineer, who fielded many technical questions, gave the presentation, which covered the formation and responsibilities of NATS and how UK airspace is managed. Rick being a retired RAF controller certainly knew his stuff!! During the presentation Michael Bankhead NATS Head of Engineering popped in and gave us a top-level overview.

The presentation took place in the viewing Gallery. Once finished, the blinds were opened and Rick explained the layout and working of the vast Control Room. This was followed by a tour of the System Control area and Engineering Facilities. The overall impression was that NATS is a well-run, professional operation with obviously highly motivated staff. The facilities we viewed were in excellent condition.

Air Traffic Control (courtesy of www.nats.co.uk): The guiding principle of air traffic control is that safety is paramount. Controllers must therefore keep the aircraft they handle safely separated using internationally agreed standards. This is achieved by allocating different heights to aircraft or by arranging certain minimum horizontal distances between them. These distances vary according to circumstances, but aircraft flying along the airways under radar surveillance, for example, are kept five nautical miles apart horizontally or at least 1,000 feet vertically.

Within UK airspace, a network of corridors has been established. These corridors, or airways, are usually ten miles wide and reach up to a height of 24,000 feet from a base of between 5,000 and 7,000 feet. They mainly link busy areas of airspace known as terminal control areas, which are normally above major airports. At a lower level are the control zones, which are established around each airport. The area above 24,500 feet is known as upper airspace.

All of these areas are designated "controlled airspace" and aircraft fly in them under the supervision of air traffic controllers. Pilots are required to file a flight plan for each journey containing details such as destination, route, timing and height.

Within controlled airspace, pilots must follow controllers' instructions; outside controlled airspace they take full responsibility for their own safety although they can ask for assistance. In fact, military controllers, who work closely with their civilian colleagues to provide a fully integrated service to all users, offer an air traffic service to aircraft in uncontrolled airspace. Military personnel also provide services to aircraft crossing airways and for those flying above 24,500 feet. A priority task for them is aiding aircraft in distress. System Control is responsible for monitoring

There are moves to provide a more integrated and streamlined air traffic system across Europe – but it takes time. Also, moves to provide more accurate control using Gallileo ‘GPS’ system when developed.

The Operation:

- Swanwick controls 200,000 square miles of airspace above England and Wales – among the busiest and most complex in the world – with the exception of London and south-east area below 24,000 feet and the Manchester area below 21,000 feet.
- 357 civil controllers, 170 civil assistants, 35 operational engineers, 47 specialist engineers and 35 military (RAF and RN) ATC staff (644 in total) have been trained to operate and maintain the system. Of the 357 civil controllers, 93 have also taken on extra training for supervisory duties.
- This airspace is split into more than 30 flight levels each separated by 1,000 feet in height.
- On a busy summer’s day, the area control operation handles up to 6,000 flights.
- The Operations Room measures 2,000 square metres, half the size of a Premier League football pitch, larger than ten tennis courts.
- The computer system has more than two million lines of software code – one of the most sophisticated IT projects in the country - representing over 3,300 functions, using 23 sub-systems connected by over 30 miles of cable (sufficient on its own to reach from London to Guildford), supplying information to over 200 workstations.
- 650,000 hours of testing has been conducted on the system.
- Radar information is fed into the Swanwick system from nine sites in the UK.
- 500 telephone lines are used to support the operations.
- The Centre expects to be continuously operational 24 hours per day, 365 days a year for the next 30+ years.

Controllers: NATS employ 664 civilian controllers on a starting salary of £45k+ with seniors on approx £90k. It costs £700k to train a controller with 90% drop out rate.

Clever secondary surveillance radar nowadays, not only sends back usual aircraft information but also checks, for example, that pilot has correctly set his altimeter levelling out control to that which has just been radioed up to him by the ground controller!

In response to a question we were told that under certain conditions, gliders are still allowed to cross airways in VMC (visual meteorological conditions).

Amazingly, despite very comprehensive display screens on the controller’s desk, they still pass around wooden holders with printed-paper slips containing essential information about aircraft about to enter a given sector! But a new system (IFACTS) should take over this function and also provide a lot more computer assistance as regards predicting trajectories and calculating corrective instructions to radio to pilots.

System Control: System Control ensures 365 day, 24 hours a day radar and radio coverage for UK airspace. They continuously monitor all the equipment in the Controllers Hall, all 29 UK radars; and all communications equipment. They are also responsible for managing maintenance, faultfinding and repair of all this equipment.

Engineering: NATS employs just under 800 engineers. Some provide day-to-day maintenance of the Swanwick centre, as well as the 140 navigation aids and 29 radars across the UK – all of which are monitored from Swanwick. Some are working on new systems – COTS (commercial off the shelf) where possible, but a fair amount of bespoke work – including extensive software development.

With the emphasis on safety there are three or four levels of redundancy, depending on the sub-system. There were two separate and, independent, high voltage grid supplies (11000 volts). A back-up diesel generator; then a back-up battery supply for critical services/equipment and uninterruptible power supplies (UPS’s) for individual equipment.

Even the UPSs (which incidentally power not only all the computers etc but also all the air conditioning!) are configured such that any one can fail!

UPS batteries have 40 min capacity with 2 off 5MW stand by diesel generators, one of which will start up if mains has failed for >7 secs.

The main hall is air conditioned to 22C +- ½C (this is tighter than main frame computer halls used to be), 50%RH +5-10 (comparable to computer halls of old) and absolute filtering of air (same as hospital theatres). The main hall has a semi-wet sprinkler fire extinguishing system, but thoughtfully, the final decision is left to the Senior controller in the hall to actually release the water.

For those who would like more information the NATS website (www.nats.co.uk) contains a wealth of information. Also thanks to Mike Wooldridge for a copy of his visit notes. R Keir

Outing:

Wednesday 25th May 12:00, Skittles, at the Gribble Inn, Oving

23 members and guests attended this new venue. The alley was adequate but the bowls were exceptionally heavy as they were made from solid apple wood, which was new for many members. The buffet was adequate but not up to one published. In all, however, an enjoyable day.

B Buckroyd

Outing:

Wednesday 20th June 1400 : Standen (National Trust) East Grinstead

Four members and their wives attended the visit to Standen, a National Trust (NT) property situated 2 miles south of East Grinstead on a wet and windy day!! The NT took responsibility for the house and garden in 1973 and acquired Standen Wood, which was originally part of the larger estate at the property, in 2001. Unlike many grand historic houses, Standen was built and lived in as a family home.

Standen was built in 1892-4 for a prosperous London solicitor, James Beale, and his large family. He chose Philip Webb as his architect, who was one of William Morris' closest friends and colleagues. William Morris's company (Morris and Co.) were chosen to decorate the interior of Standen and as a result, it is one of the finest surviving examples of the company's work in a domestic setting in all its variety of pattern, colour and texture, from printed wallpapers to tapestries and furniture. Margaret Beale and her daughters were talented needlewomen who were inspired by Morris to work elaborate embroidery hangings after his designs. Many of these are still in the house.

The rooms are filled with ceramics, metalwork and textiles by leading artists of the time, all typical of the Arts and Crafts Movement, which stressed the importance of traditional skills and simplicity. The original electrical light-fittings designed for the house, are still in place.

The Beales started planting the 12-acre garden almost immediately after they had acquired the land. The characteristic Arts & Crafts garden used local materials in the construction of the formal elements, and loose planting within a framework of yew hedges, trellis and pergolas. Naturalistic colour schemes and subtle combinations of colour and foliage were preferred and care was also taken in the transition between the garden and surrounding landscape. The garden includes a traditional Victorian kitchen garden.

R Keir (Information courtesy of NT Standen website)

Outing:

Wednesday 22nd July 14:30 The West Sussex Records Office, Chichester

This was a most interesting visit. Our party was split into two groups after registration as day visitors to the Records Office. This enabled our two guides to take each smaller group to different areas of the building to start the tour and ensure we did not hinder the work of the staff or researchers in the areas visited.

Our group started initially in the archive strong rooms, where vast quantities of documents are held and stored in temperature, humidity and light controlled conditions where they can be securely protected from fire, flood and theft. It is in these strong rooms that the Conservators play a central role in ensuring that the recorded history of West Sussex is preserved for the use of present and future generations.

From here we went to see the new documentation that was currently being processed for inclusion into the 'protected, catalogued and stored' category. (An incredible number of documents donated from many different sources waiting processing and integration into the various collections.)

Our next area was that associated with the preservation, and restoration of documentation, where we were shown a number of documents in a variety of states of repair, and we were shown some of the techniques and materials used in the preservation/repair processes.

We were then given a tour around the Record Office research facilities, which are open to the public, including a description of the resources available to researchers to inspect old records. This included the process for inspecting specific documentation; original documents, such as Parish Registers, microfiche and 35mm film copies of documentation, digitally stored documentation and Internet stored documentation.

The tour ended with a talk about old maps of West Sussex and we were able to inspect a number of Worthing Area maps dating for the early 1800's showing its development over the years and many interesting facets of the land ownership, local industry, and developments such as the installation of sewers throughout the district after the 19th century Cholera outbreak.

REMINDER:

SUBSCRIPTION REQUEST: (2011/2012)

To: Treasurer, J H Underwood, 168 Alinora Crescent, Goring by Sea, BN12 4HW

Full name:..... **Telephone No**
Address..... **e-mail**.....
.....
.....

I enclose a cheque made payable to RCEA for **£.....(£12.00)**

Please return this reply slip by 1st October 2011 (Separate cheque please)

.....

REPLY SLIP 1

To: A J Tomkins, 2 Badger Drive, Haywards Heath, RH16 1EP Tony
Tomkins 01444 455025 or email tonytomkins001@aol.com

I/We wish to attend the **Visit to Shoreham Lifeboat Station, at 14.00 on Wednesday 14th September**

Full Name..... **Telephone No**
Address..... **e-mail**.....
.....
..... **Number of Persons**.....

I enclose a cheque made payable to RCEA for **£.....(£2.50 per person)**

Applications by 1st September 2011

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REPLY SLIP 2

To: R W V Norton, 106, Wallace Avenue, Worthing, BN11 5QA
: *Richard Norton 01903 242204 or email rwnorton@iee.org*

I /We would like to attend the **visit to Oldland Windmill, Keymer, West Sussex, on Wednesday, 5th October at 1430.**

Name **Telephone**
Address **e-mail**
.....
..... **Number of Persons**

I enclose a cheque made payable to RCEA for **£.....(£2.50 per person)**

I am likely to visit the Thatched Inn for lunch **Yes/No** (*This is not a commitment*)

Applications by 29th September 2011

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REPLY SLIP 3

To: D B Thomas, 10 East Close, Middleton-on-Sea, Bognor Regis, PO22 7RS Dave Thomas
01243 586685 or email david_b.thomas@virgin.net

I/We wish to attend the **Visit to Siemens Railcare, Southampton on Wednesday 23rd November** (Time to be confirmed)

Name.....Telephone.....
Address.....e-mail.....
.....
.....
..... Number of Persons.....

Applications by 1st November 2011

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REPLY SLIP 4

To: Treasurer, J H Underwood, 168 Alinora Crescent, Goring by Sea, BN12 4HW

Can you please reserve me places to attend the 60th Anniversary Lunch at the Windsor Hotel, Worthing on Wednesday 30th November 2011.

If you would like to be seated with another member / group can you please indicate their names.

Full name:.....(Block capitals)

Address.....

Telephone Number.....Name of guest/s E mail
address.....Seating Request.....

I enclose a cheque made payable to RCEA for **£.....(£25.00) per person (Separate cheque please)**

LUNCH MENU 30th November 2011

Choice & Name

| | | |
|---|--|--|
| Spiced Carrot and Red Lentil Soup <i>Garnished with crispy croutons</i> | | |
| Baked Mushrooms <i>Stuffed with Blue Cheese & fresh herb crumb</i> | | |
| Ardennes Pate <i>Served with melba toast and a sweet onion chutney</i> | | |
| Traditional Roast Turkey and Honey Roasted Gammon <i>Served with sage and onion stuffing, Cumberland sausage & rich gravy</i> | | |
| Roasted Leg of Lamb <i>Served with a fresh tarragon sauce</i> | | |
| Salmon Fillet <i>Brushed with a chilli pepper butter and grilled</i> | | |
| Vegetarian | | |
| Vegetarian Cobbler <i>topped with a cheddar cheese and herb scone (Can be adapted to suit Vegans)</i> | | |
| Christmas pudding <i>Served with Brandy sauce</i> | | |
| Chocolate and Brandy Torte <i>Garnished with fresh cream and chocolate sauce</i> | | |
| Open Choux Bun Filled with fresh winter fruits and vanilla cream | | |
| Coffee & Mints | | |

Please reply before 30th October 2011

August 2011