

**BELFAST GEOLOGISTS' SOCIETY**

**President:** Dr P. R. CROWTHER

**Vice Presidents:**

Miss A. B. CARTER

Dr T. B. ANDERSON

J. W. ARTHURS, M.Sc.

P. S. DOUGHTY, M.Sc, F.M.A.

Dr J. PRESTON

**Honorary Secretary:**

W. P. MILLAR, B.Sc.

31 Knock Eden Park, Belfast BT6 0JF

**Honorary Treasurer:**

Miss J. McKELVEY

8 Cairnburn Drive, Belfast BT4 2HW

**Honorary Librarian:**

I. J. FORSYTHE, B.A.

**Members of Committee:**

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Professor R. A. B. BAZLEY

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Mr C. PERRY

Mrs J. PRESTON, B.Sc.

Mrs B. RUSSELL

Mr S. TWIST

**BELFAST GEOLOGISTS'  
SOCIETY**



**WINTER PROGRAMME  
1999-2000**

Winter meetings are held in the  
Ulster Museum at 7:30 pm on the  
third Thursday of each month  
unless otherwise stated.

## WINTER MEETINGS

**OCTOBER 21**

EXHIBITION PREVIEW:  
*TRACKING DINOSAURS*  
*followed by*  
FROM THE SCRABO DINOSAUR TO  
MARBLE ARCH TO TORR HEAD  
Dr Ian Enlander (DoENI)

**NOVEMBER 18 (Joint with IGA)**

BURGESS SHALE-TYPE  
PRESERVATION IN THE  
FOSSIL RECORD  
Dr Patrick Orr (UC Galway)

**DECEMBER 16**

RIGS IN NORTHERN IRELAND  
The President

**JANUARY 20**

GEOLOGICAL SURVEYING  
IN THE 21st CENTURY  
John Arthurs, MSc (GSNI)

**FEBRUARY 17**

GEOLOGY OF AN ATLANTIS  
Dr Ariëne Hunter (OU)

**MARCH 4 (Saturday)**

ANNUAL DINNER  
*(in Glenavna House, 7:30 for 8:00)*

**MARCH 16**

ANNUAL GENERAL MEETING  
followed by the  
HERBERT S. BLACK LECTURE  
*GEOLOGY AND WINE:  
THE FRENCH CONNECTION*  
Dr Geoff Tresise

Sponsored by

ULSTER  
MUSEUM

**MARCH 25/26 (Saturday/Sunday)**

THE ROCKY ROADSHOW  
*(in Ulster Museum*  
1:00pm - 4:30pm Saturday  
2:00pm - 4:30pm Sunday)

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**SPRING PROGRAMME  
2000**

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**AUTUMN PROGRAMME  
2000**

**SEP 9 (Joint with BNFC)**

**ESKERS**

Dr George Dardis & Dr Jasper Knight  
Meet at Ballygawley roundabout, Co  
Tyrone, H629571, 11:30 am.

**OCT 7**

**ROCKS ON SHORE**

**NEAR PROPOSED LARNE MARINA  
AND WATERLOO ASSI**

Prof Tony Bazley  
Meet at car park on E side of Glenarm Rd,  
Larne, just S of Chaine Park and opposite  
BB Headquarters, D408034, 10:30 am.

**OCT 21**

**GRAPTOLITES OF  
THE ARDS PENINSULA**

The President  
Meet at Commons (Coalpit Bay) car park,  
off coast road, S of Donaghadee,  
J595791, 11:00 am.

**MAY 13, SATURDAY**

**THE WESTERN MOURNES**

Peter Millar  
Meet at Spelga Dam car park, Co Down,  
J268273, 10:30 am.

**MAY 27, SATURDAY**

**CRAIGAHULLIAR AND OTHER LAVA  
LOCALITIES IN NORTH ANTRIM**

Dr John Preston  
Meet at Lansdowne Crescent car park,  
Portrush, C855413, 11:00 am.

**JUN 10, SATURDAY**

**CALEDONIAN INTRUSIVE  
COMPLEXES OF COUNTY TYRONE**

Dr Mark Cooper  
Meet in centre of Pomeroy, H694723,  
11:00 am.

**JUN 21, WEDNESDAY**

**BUILDING STONES OF  
DOWNPATRICK**

Ken James  
Meet outside Down County Museum,  
English Street, Downpatrick, J484446,  
7:00 pm.

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**WINTER PROGRAMME  
2000-2001**

Winter meetings are held in the  
Ulster Museum at 7:30 pm on the  
fourth Wednesday of each month  
unless otherwise stated.

Refreshments available from  
7:00 pm in the Engineering Hall

**BGS WINTER MEETINGS ARE ON  
WEDNESDAYS THIS YEAR**

**OCTOBER 25**

HOW COMPLETE IS THE FOSSIL  
RECORD (AND DOES IT MATTER  
ANYWAY)?

Prof Chris Paul (Liverpool University)

**NOVEMBER 22**

STRATIGRAPHY WITHOUT  
FOSSILS IN OMAN

Dr Gretta McCarron

**DECEMBER 13**

GEOLOGY AND HEALTH

Dr Dee Flight (GSNI)

**JANUARY 16 (TUESDAY, IGA meeting)**

WALKING WITH DINOSAURS:  
THE TRUTH

Prof Mike Benton (Bristol University)  
(in Ulster Museum)

**FEBRUARY 3 (SATURDAY)**

ANNUAL DINNER

Glenavna House Hotel, Whiteabbey  
7:30 for 8:00

**FEBRUARY 21**

SOME ASPECTS OF THE GEOLOGY  
OF THE DECCAN BASALTS

Dr Paul Lyle (University of Ulster)

**MARCH 7**

TRAVELS WITH MY DONKEYS  
IN THE NORTH-WEST HIGHLANDS  
OF SCOTLAND

Dr Bernard Anderson (QUB)  
(Venue to be arranged)

**MARCH 21**

ANNUAL GENERAL MEETING  
and

A FIELD TRIP WITH HERBERT BLACK

Presented by Dr John Preston

**MARCH 24/25 (SAT/SUN)**

ROCKY ROADSHOW

Ulster Museum

Sat 1:00pm to 5:00pm

Sun 2:00pm to 5:00pm

**APRIL 25**

SLOPE FAILURES

AT THE GIANT'S CAUSEWAY

Dr Bridget MacDonnell (QUB)

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**NOTICE**

Because of the outbreak of Foot and Mouth Disease the summer programme is provisional. You can confirm if a particular event is actually taking place by ringing 028 9064 2886 a couple of days beforehand.

**SUMMER PROGRAMME  
2001**

**MAY 12 (Saturday) Joint with BNFC  
THE EAST ANTRIM COASTAL SECTION  
FROM LARNE TO CUSHENDALL**

*Prof Tony Bazley*

Meet at the Chaine Park car park (D408034)  
on right hand side of coastal Glenarm Road  
just before leaving Larne, 10:30 am.

**JUNE 6 (Wednesday)  
WEST OF ROYAL AVENUE  
- Building Stones of Belfast.**

*Dr Alan Bell*

Meet at the front of the City Hall, Belfast at  
7:30 pm.

**JUNE 16 (Saturday)  
WHITEHEAD**

*Dr Mike Simms*

Meet at car park at Beach Road  
(continuation of Cable Road), Whitehead  
(J475915), 1:30 pm.

**AUGUST 18 (Saturday)  
A GEOLOGICAL MYSTERY TOUR**

*The President*

Meet at sports field car park (J497735) on  
left hand side of Portaferry Road just before  
leaving Newtownards, 10:00 am.

**SEPTEMBER 1 (Saturday)  
CUILCAGH**

*Les Brown*

Meet at Marble Arch Centre car park  
(H121344), 11:30 am.

**SEPTEMBER 15 (Saturday)  
A GEOMORPHOLOGICAL WALK AT THE  
GIANT'S CAUSEWAY**

*Dr Brigid McDonnell*

Meet at Causeway Visitor Centre entrance,  
11:00 am.

**SEPTEMBER 29/30 (Saturday/Sunday)  
GIRVAN AREA**

*Prof Euan Clarkson*

For details ring 028 9064 2886

**OCTOBER 13 (Saturday)  
LECALE**

*Dr Bernard Anderson*

Meet at large picnic area (J494463) on right  
hand side of Quoile Bridge to Strangford  
Road ½mile from Quoile Bridge, 10:30 am.

**THERE IS AN IMPORTANT NOTICE  
ON THE FRONT OF THIS CARD**



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2001-2002**

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Ulster Museum at 7:30 pm on the  
third Wednesday of each month  
unless otherwise stated.

Refreshments available from 7:00 pm  
in the Engineering Hall

**OCTOBER 23 (TUESDAY, Joint with IGA)**  
SNOWBALL EARTH -  
CLIMATIC CATASTROPHE  
Professor Ian Fairchild  
(University of Keele)

**NOVEMBER 21**  
SO YOU WANT A ROCKERY?  
Alan Bell  
(Aardvark Geological Services)

**DECEMBER 12**  
GEOLOGY AND HEALTH  
Dr Dee Flight  
(Geological Survey of Northern Ireland)

**JANUARY 16**  
EARTHQUAKE PREDICTION  
Professor John McCloskey  
(University of Ulster)

**FEBRUARY 20**  
PRESIDENTIAL ADDRESS  
Philip Doughty  
(Museums & Galleries of  
Northern Ireland)

**MARCH 16/17 (SAT/SUN)**  
**ROCKY ROADSHOW**  
Ulster Museum  
Sat: 1:00pm - 5:00pm  
Sun: 2:00pm - 5:00pm

**MARCH 20**  
MINERAL EXPLORATION  
IN DONEGAL  
Jason Bak  
(Cambridge Minerals)

**APRIL 17**  
ANNUAL GENERAL MEETING

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**SUMMER PROGRAMME  
2002**

**APRIL 27 (Saturday)**

**HOWTO LOOK AT ROCKS**

John Arthurs

Meet: Murlough Bay top car park, Co. Antrim  
11.00 am (D191418)

**MAY 4,5,6**

**ROCKS AROUND THE NORTH**

(see separate programme)

**MAY 16 (Thursday evening)**

**KEARNEY**

Bernard Anderson

Meet: NT car park, Kearney Village,  
Ards Peninsula, Co. Down, 6.30 pm (J649518)

**JUNE 1,2 (Saturday/Sunday) - joint with IGA  
LIMESTONE LANDSCAPES OF THE BURREN  
AND GORT LOWLANDS**

Mike Simms

Meet: Layby on Gort-Ennis N18 1.5 km S of Gort,  
Co. Galway, 12.30 pm on Saturday. (M455002)  
(next to lane heading E, signposted  
"Punchbowl")

**JUNE 8 (Saturday afternoon)**

**THE GREENISLAND SILL**

Peter Millar

Meet: Hazelbank Park, Newtownabbey, 1.30 pm  
(off roundabout an end of M5, J354815)

**JULY 20 (Saturday afternoon) - joint with IAA  
APOCALYPSE AT LARNE**

Mike Simms

Meet: Car park on seaward side of swimming  
pool, Larne, 1.30 pm (D412031)

**SEPTEMBER 7 (Saturday)**

**ARMAGH**

Phil Doughty

Meet: Armagh Planetarium car park, 10.45 am  
(H879457)

**SEPTEMBER 21 (Saturday)**

**CUILCAGH**

Les Brown

Meet: The Marble Arch Centre car park,  
Co. Fermanagh, 11.30 am (H121344)

**OCTOBER 19 (Saturday) - joint with BNFC  
TWELVE THOUSAND YEARS  
ON THE NORTH COAST**

Marion Allen & Ann Given

Meet: Lansdowne Crescent car park, Portrush  
11.00 am (C855413)  
Wellington boots recommended.

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**2002/2003**

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third Wednesday of each month  
unless otherwise stated.  
Refreshments available from 7:00 pm  
in the Engineering Hall.

**OCTOBER 16**  
**THE PRE-QUATERNARY EVOLUTION OF**  
**IRELAND'S LANDSCAPE**

Professor Adrian Phillips  
(Department of Geology, Trinity College  
Dublin)

**NOVEMBER 20 – Joint with IGA**  
**THE PERMIAN MASS EXTINCTION**  
**- NEW DEVELOPMENTS**

Dr Paul Wignall  
(Dept. of Earth Sciences, University of Leeds)

**DECEMBER 11**  
**WHEN WORLDS COLLIDE -**  
**SCIENTISTS IN HOLLYWOOD**

Dr Ted Nield  
(Science and Communications Officer,  
Geological Society of London)

**JANUARY 15**  
**THE PRESIDENTIAL ADDRESS:**  
**EDINBURGH ROCK**

**FEBRUARY 15 (SATURDAY, ALL DAY)**  
**PRACTICAL GEOLOGY WORKSHOP**

Mr John Arthurs, M.Sc.  
Venue to be arranged – notice later.

**FEBRUARY 19**  
**GRAVES, MOATS, DUNES AND**  
**LANDFILL SITES: GROUND-PENETRATING**  
**RADAR RESEARCH IN IRELAND**

Dr Alastair Ruffell  
(School of Geography,  
Queen's University Belfast)

**MARCH 1 (SATURDAY)**  
**ANNUAL DINNER**

Glenavna House Hotel, Whiteabbey  
7:30 for 8:00 pm

**MARCH 19**  
**CRETACEOUS KITES OF BRAZIL:**  
**A DIVERSE ARRAY OF PTEROSAURS**

Dr Dave Martill  
(School of Earth & Environmental Sciences,  
University of Portsmouth)

**APRIL 16**  
**ANNUAL GENERAL MEETING**

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**SUMMER PROGRAMME  
2003**

**APRIL 12/13 (Saturday/Sunday) - with IGA  
LOUGH MASK**

Brian McConnell and Mike Simms  
Meet: Ferry Bridge, Co Mayo, 10:00 am  
(M064583)

**MAY 10**

**INISHOWEN**

Bernard Anderson  
Meet: Greencastle Harbour, Co Donegal,  
11:00 am (C649401) Will be on shore ½ mile NE  
of harbour down lane (C657406) off L85 until  
12:00 am

**MAY 28 (Wednesday evening)**

**IRISH POTS AND IRISH CLAY**

Peter Francis  
Meet: Fisherman's Quay, Carrickfergus, 7:00 pm  
(½ mile E castle, J421878)

**JUNE 14**

**THE GEOLOGY OF THE SLIEVE GULLION  
RING COMPLEX**

Susan McDonnell  
Meet: Slieve Gullion Forest Park Centre,  
11:00 am (J041197)  
(Entrance is on B113 Newry-Forkhill road,  
1 mile SW of Meigh)

**JUNE 27/30**

**EDINBURGH AND NORTH BERWICK**

(Details from Secretary)

**SEPTEMBER 13 - with BNFC  
LEAD MINES OF LECALÉ**

Dr Norman Moles  
Meet Castleward farm yard (ie lower) car park,  
2:00 pm (J574498).

**20 SEPTEMBER 20**

**HEN MOUNTAIN**

The Secretary  
Meet Spelga Dam car park, 2:30 pm (J268273)  
Saturday, 4 October 2002

**OCTOBER 4**

**CLOGHFIN PORT**

Dr Andy Jeram  
Meet Mullaghdubh House, 27 Gobbins Path,  
Whitehead, 10:00 am (J481949).

**OCTOBER 18**

**THE CLAY-WITH-FLINTS: A CLOSER LOOK**

Dr Ian Mitchell  
Meet: Belshaw's Quarry (J228670) off Lisburn-  
Glenavy A30 3 miles from Lisburn, 10:00 am.

**NOVEMBER 12**

**VISIT TO I.S.M.E. SALT MINE**

Meet mine car park, Fort Road, Kilroot,  
Carrickfergus, 10:30 am (J450890)  
Limited number - selection by ballot.  
Contact Hon Secretary before 22/10/03



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**Honorary Adviser to Committee:**

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50<sup>th</sup>  
Anniversary

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2003-2004**

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Further information on:  
[www.habitas.org.uk/es2k](http://www.habitas.org.uk/es2k)

**AUTUMN 2003**

**OCTOBER 22**

**LAVA LAKES - THE FORMATION OF  
FLOOD BASALT PROVINCES**

Dr Paul Lyle  
(University of Ulster)

**NOVEMBER 19**

**THE RISE AND FALL OF UTAH GEOLOGY**

Dr Mark Cooper  
(Geological Survey of Northern Ireland)

**DECEMBER 17**

**WHEN WORLDS COLLIDE  
- SCIENTISTS IN HOLLYWOOD**

Dr Ted Nield  
(Geological Society of London)

**\***

**ANNUAL DINNER 2004**

**MARCH 6 (Saturday)**

Glenavna House Hotel, Whiteabbey  
7:30 for 8:00 pm

**50<sup>TH</sup> ANNIVERSARY YEAR  
LECTURE SERIES 2004**

**GEOLOGY IN THE NORTH OF IRELAND  
HALF A CENTURY OF PROGRESS**

**JANUARY 28**

**1. ALL CHANGE PLEASE!  
- DALRADIAN**

Professor Donny Hutton  
(University of Birmingham)

**FEBRUARY 18**

**2. PARADOXES AND PANACEAS  
- LOWER PALAEOZOIC**

Presidential Address - Dr Bernard Anderson

**MARCH 24**

**3. TOTALLY TROPICAL  
- UPPER PALAEOZOIC**

Dr Ian Mitchell  
(Geological Survey of Northern Ireland)

**APRIL 21**

**ANNUAL GENERAL MEETING  
with  
TALES OF THE SOCIETY**

*Lectures 4 - 6 of the 50th Anniversary Lecture  
Series 2004 will follow in October - December.*

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**BELFAST GEOLOGISTS'  
SOCIETY**



*5<sup>th</sup>  
Anniversary*

**SUMMER PROGRAMME  
2004**

Further information on:  
[www.habitas.org.uk/es2k](http://www.habitas.org.uk/es2k)

**APRIL 17**

**VISIT TO GOLD MINE - CURRAGHINALT**

Meet: Bridge in Main Street, Gortin, Co Tyrone  
(H495858) 10:30 am

Limited number - please contact Hon Secretary.  
Bring torch and wellingtons. Hard hat provided.

**MAY 1-3**

**ROCKS AROUND THE NORTH**

See separate programme for details

**MAY 4 (TUESDAY EVENING)**

**50th ANNIVERSARY FIELD MEETING  
AND UNVEILING OF PLAQUE**

**COLIN GLEN**

Dr Tony Bazley

Meet: Colin Glen Centre,

Stewartstown Road, Belfast (J285705)

6:15 pm.

**MAY 15**

**RUSH AND LOUGHSHINNY - WITH BNFC**

Prof George Sevastopulo

Meet: Pier at Rush, Co Dublin  
(O275543) 11:00 am.

**MAY 23-27**

**ASSYNT**

The President

Details from Hon Secretary

**JUNE 5**

**SLIEVE CROOB AREA**

Dr Mark Cooper and Dr Ian Meighan

Meet: Slieve Croob car park, Dree Hill, Dromara  
(J300452) 10:30 am

**JUNE 26**

**INTRODUCTION TO GEOLOGY - CRANFIELD  
ENGINEERING GEOLOGY - SILENT VALLEY**

Meet: Greencastle Point, Kilkeel, Co Down  
11:00 am (J241118).

**AUGUST 14**

**RATHLIN ISLAND**

The Secretary

Meet: Ballycastle Harbour (D121415)  
for 10:00 am ferry

Please book with Hon Secretary

**SEPTEMBER 25-26**

**WEST DONEGAL**

Dr John Roberts

Meet: Nesbitt Arms Hotel, Ardara, Co Donegal  
10:30 am (Saturday)

**OCTOBER 16**

**GEOLOGICAL BATTLEFIELDS, OR,  
HOW THE WEST WAS WON**

Marion Allen & Ann Given

Meet: Navan Quarry, Armagh (H851450) 11:00am

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[www.habitas.org.uk/es2k](http://www.habitas.org.uk/es2k)

**50TH ANNIVERSARY YEAR  
LECTURE SERIES 2004**

**GEOLOGY IN THE NORTH OF IRELAND  
HALF A CENTURY OF PROGRESS  
(continued)**

**OCTOBER 20**

**4. BIRTH OF AN OCEAN  
- MESOZOIC AND TERTIARY**  
Dr Mike Simms  
(Ulster Museum)

**NOVEMBER 17**

**5. THE BIG FREEZE  
- QUATERNARY**  
Dr Jasper Knight  
(University of Exeter)

**DECEMBER 15**

**6. BURIED TREASURE  
- ECONOMIC GEOLOGY**  
John Arthurs  
(Field Experience Company)

**2005**

**JANUARY 19**

**GEPARKS  
- ADVENTURES OF A GEOTOURIST**  
Dr Patrick McKeever  
(Geological Survey of Northern Ireland)

**FEBRUARY 16**

**FORENSIC GEOSCIENCE**  
Dr Alastair Ruffell  
(Queen's University Belfast)

**FEBRUARY 26 (Saturday)**

**ANNUAL DINNER**  
Glenavna House Hotel, Whiteabbey  
7:30 for 8:00 pm

**MARCH 16**

**PRESIDENTIAL ADDRESS**

**APRIL 20**

**ANNUAL GENERAL MEETING**

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**SUMMER PROGRAMME  
2005**

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**APRIL 23**

**COME DOWN AND MEET OUR  
ACCRETIONARY PRISM**

*When continents collide - an introduction to sediments, folding, faulting and pillow lavas.*

Leader Bernard Anderson.

Meet car park at the west end of Helens Bay (J459828) 10.30 am.

**MAY 7**

**A NEW LOOK AT THE CAUSEWAY COAST**

*The conservation of a World Heritage Site. This excursion includes a boat trip from Ballycastle along the coast to view the Causeway cliffs from the sea.*

Leader Paul Lyle.

Meet Causeway main car park (C944439)

11.00 am.

**Ring Philip Doughty on 028 9059 4636 by 4th  
May for fare and to book.**

**MAY 28**

**PRESIDENTIAL EXCURSION -  
THE WEST END OF RATHLIN**

*Spectacular cliff scenery and the enigma of the inter-basaltic beds.*

Meet Ballycastle Harbour (D121415) 9.30 am for the 10 am ferry.

**Ring the Secretary on 028 9064 2886 to book.**

**JUNE 25**

**LOOKING AT IGNEOUS ROCKS**

*A day out, largely for beginners, exploring the basics of igneous rocks. It will also include a visit*

*to McConnell's stone yard to see modern stone cutting equipment and a variety of decorative stone imports.*

Leaders P Doughty, S Gray, R Grainger

Meet Bloody Bridge car park (J389271) 10.30 am.

**JUNE 29 (EVENING)**

**TELLUS TECHNOLOGY**

*An opportunity to inspect the Tellus de Havilland Twin Otter survey plane and to talk to the team about the project.*

Leaders Garth Earls, Marie Cowan and team members.

Meet Newtownards Airfield (J495733) 6.30 pm, access from the A20 Portaferry road. Look for Ulster Flying Club sign on the right soon after the Texaco filling station.

**AUGUST 20**

**THE ICE MELTS IN THE SPERRINS**

*A look at some classic landscapes that owe their form to the last stage of the Ice Age.*

Leaders Tony Bazley and Mark Cooper.

Meet Gortin Glen Forest Park car park (H485822), off the B48 north of Omagh, 11.00 am.

Car park charge £3.

**SEPTEMBER**

**THE ENGLISH LAKE DISTRICT**

**Ring Philip Doughty on 028 9059 4636 for  
details.**



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## 2005

**OCTOBER 19**

**PROGRESS OF THE TELLUS PROJECT**

Drs Mike Young, Dermot Smyth and  
Chris van Dam

(Geological Survey of Northern Ireland)

**NOVEMBER 16**

**DINOSAURS AND THE ORIGIN OF BIRDS:  
NEW FOSSIL EVIDENCE FROM ASIA**

Dr Gareth Dyke

(Trinity College Dublin)

**DECEMBER 14**

**FIRST HAROLD WILSON MEMORIAL  
LECTURE**

(supported by ES2k, GSNi and British Geological  
Survey)

**RECENT AND THREATENED EARTHQUAKES  
ON THE SUMATRA SUBDUCTION ZONE:  
IS THE SCIENCE THE EASY BIT?**

Professor John McCloskey

(Environmental Sciences, University of Ulster)

## 2006

**JANUARY 25**

**PROSPECTING IN ZAMBIA**

John Arthurs

**FEBRUARY 22**

**THE MOUNT NEWMAN STORY AND  
THE BROCKMAN IRON ORE FORMATION  
OF NORTH-EAST AUSTRALIA**

Leslie Wortley

(BGS President)

**MARCH 22**

**ICELAND'S GLACIAL LANDSCAPES**

Dr Mark Cooper

(Geological Survey of Northern Ireland)

**APRIL 19**

**ANNUAL GENERAL MEETING**

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**SUMMER PROGRAMME  
2006**

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**APRIL 29**

**VULCANOLOGY AT BLACK HEAD**

Leader Paul Lyle.

Meet at the sea front car park (J479922),  
Whitehead, at 2.30 pm.

**MAY 6**

**RUBIES ARE RED, SAPPHIRES ARE BLUE**

*– or are they? A short talk on colour and its chemistry in gem stones, followed by a gallery demonstration. Joint with the Belfast Naturalists' Field Club.*

Speaker/demonstrator Marion Allen.

Meet in the Ulster Museum at 1.45 pm.

**MAY 20**

**FROM EARTH TO ARCHITECTURE**

*A look at dimension stone extraction (Newry Granodiorite) and its use in buildings*

Leaders Joanne Curran and J Savage.

Meet Ballymagrehan Quarry (J304354) 10.00 am.

Take A25 SW from Castlewellan. At 1 mile: right onto  
Altnadue Rd. 1 mile: left onto Largy Rd. 300 mtrs:  
fork right, up through gate onto private lane.

**JUNE 17**

**LOOKING AT SEDIMENTARY ROCKS\***

*A day out, largely for beginners, looking at different sedimentary rocks, their origins, features, structures and how to identify them.*

Leaders Philip Doughty and amateur members.

Meet at Cookstown Cement Works Quarry  
(H799748), Sandholes Road, at 10.30 am.

*\*The President and Mrs Wortley have kindly invited excursion participants to a BBQ at 224 Marlacoo Road, Portadown after the final stop at around 5.30 pm*

**JULY 1**

**MAGILLIGAN AND BINEVENAGH**

Leader Dave Riley.

Meet at Magilligan Field Centre (C677337),  
5 miles W of Downhill on the A2 Seacoast Road at  
11.00 am

*For more information on the Field Centre see  
[www.welb-cass.org/mfc](http://www.welb-cass.org/mfc).*

**AUGUST 16 (WEDNESDAY EVENING)**

**TREE RING DATING, CARBON DATING,  
TEPHRA STUDIES AND MORE**

*A visit to the Palaeoecology Centre,  
Queen's University*

Leader Prof. Jonathan Pilcher and others.

Meet at the entrance to the lab, Fitzwilliam Street,  
at 6.00 pm.

**AUGUST 25 to 29**

**GEOLOGY OF THE PENTLAND HILLS  
AND ADJACENT AREAS**

*Long weekend.*

Leader Euan Clarkson.

For details please contact Philip Doughty at either  
[philip.doughty@ntlworld.com](mailto:philip.doughty@ntlworld.com)  
or ring (028) 9059 4636.

**SEPTEMBER 30**

**ASPECTS OF THE CARBONIFEROUS  
OF FERMANAGH**

Leader Tom Mason.

Meet at the filling station in Blaney (H163528)  
approx 7 miles NW of Enniskillen on the A46  
Belleek Road at 11.00 am.

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## 2006

**OCTOBER 2**

**HOT IN COLD: MAGMATIC PLUMES  
IN THE ANTARCTIC**

Professor Donny Hutton  
(University of Birmingham)

**NOVEMBER 20**

**SECOND HAROLD WILSON  
MEMORIAL LECTURE  
(supported by ES2k, GSNI and  
the British Geological Survey)  
THE CHALLENGES OF MONITORING  
A RESTLESS PLANET**

Dr John Ludden  
(Director, British Geological Survey)  
*IN MAIN HALL*

**DECEMBER 11**

**PRESIDENTIAL ADDRESS**

Garth Earls  
(BGS President and Director,  
Geological Survey of Northern Ireland)

## 2007

**JANUARY 15**

**CONSERVING OUR STONE HERITAGE:  
THE NATURAL STONE DATABASE FOR  
NORTHERN IRELAND**

Dr Joanne Curran  
(Consarc)

**FEBRUARY 19**

**FURTHER PROGRESS OF  
THE TELLUS PROJECT**

Drs Mike Young, Chris van Dam and  
Dermot Smyth  
(Geological Survey of Northern Ireland)

**FEBRUARY 24 (Saturday)**

**ANNUAL DINNER**

Rockmount Golf Club, Carryduff,  
7:30pm for 8:00pm

**MARCH 26**

**THE APPLICATION OF  
GEOPHYSICAL SURVEYING TECHNIQUES TO  
ARCHAEOLOGICAL INVESTIGATIONS**

Dr Paul Gibson  
(National University of Ireland, Maynooth)

**APRIL 16**

**ANNUAL GENERAL MEETING**

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## SUMMER PROGRAMME 2007

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**APRIL 14**  
**THE GEOLOGICAL DIVERSITY OF SOUTH DONEGAL**

The President  
Meet at the Mill Park Hotel Car Park (G924787)  
at 10.30 am.

The hotel is at the last roundabout on the Donegal town  
bypass before the Killybegs road, the N56.

**MAY 12**  
**GIANT'S CAUSEWAY BOAT TRIP**

Paul Lyle  
*This excursion will view the geology and geomorphology  
of the Causeway cliffs from the sea.*

Cost £24.50 per person.

Contact Philip Doughty (Tel: 9059 4636) to reserve place.  
Meet at Ballycastle Harbour pier (D122416) 12 noon.

**MAY 26**  
**THE TRUTH IN BLACK AND WHITE:**  
**Life needs Quarries**

Laverie Bell  
*An excursion to two sites to consider the importance of  
quarries and their products, conservation, geodiversity and  
management. There will also be some excellent fossil  
collecting.*

Meet at Croaghan Quarry, Macosquin (C799261) at  
10.30am. Lunch at the Garvagh Forest car park before  
moving on to Carnean Limeworks, Moneymore  
(H864872) for the afternoon.

**JUNE 9 and 10**  
**LOOKING AT METAMORPHIC ROCKS IN NW  
DONEGAL**

Bernard Anderson  
*This excursion, in spectacular scenery, is intended for  
beginners as an introduction to the world of metamorphic  
rocks.*

Meet at the car park immediately below the Ards Priory  
(C086344) 7 km south east of Dunfanaghy at 10.00 am -  
returning to Priory car park at 12.30 pm.

**JUNE 19 (Tuesday evening, joint with BNFC)**  
**ANCIENT OCEANS AND MODERN COASTS**

Peter Millar  
*An evening excursion to a place which is a microcosm of  
Antrim geology with limestones, lavas and fossils. We will  
also see fine examples of coastal features including a  
tombolo.*

Meet at Portmuck car park, Islandmagee (D460023)  
at 7.00 pm.

**JULY 21**  
**THE CARBONIFEROUS OF BALLYCASTLE**

Andy Jeram  
Due to tidal complications we plan to meet for a leisurely  
lunch at the lower car park in Murlough Bay (D196423) at  
12.30 pm before moving on to Ballycastle at 3.00 pm.

**AUGUST 18**  
**DOGGING THE DEBRIS: the difficulties of  
managing a dynamic World Heritage Site**

Professor Bernie Smith  
*This excursion will examine on the ground the difficulties  
of managing a dynamic coastal landscape and  
safeguarding its natural processes while attempting at the  
same time to accommodate access to its key designated  
geological interest*

Meet at the Causeway Head car park (C945439)  
at 11.00 am.

**SEPTEMBER 1**  
**LIMESTONES AND LEGENDS**

Kirstin Lemon  
*This excursion will explore the karst features on the  
Fermanagh and Cavan slopes of Cuilcagh Mountain and  
their relationship to the earliest settlers in the area.*  
Meet at the Marble Arch Caves European Geopark Visitor  
Centre car park (H121345) at 10.30 am.



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## 2007

OCTOBER 15

**ANCIENT IRISH GOLD AND  
ITS LOCAL ORIGIN?**

Richard Warner

NOVEMBER 19

**SEA LEVEL, SEDIMENTS AND  
COASTAL EVOLUTION:  
RECENT DEVELOPMENTS IN  
NORTHERN IRELAND**

Professor Andrew Cooper  
(Coastal Studies Research Group,  
University of Ulster)

DECEMBER 10

**THIRD HAROLD WILSON MEMORIAL LECTURE**  
(supported by ES2k, GSNI and  
the British Geological Survey)  
**IRELAND AND**

**THE GEOLOGICAL SOCIETY OF LONDON**  
Professor Gordon L. Herries Davies

## 2008

JANUARY 21

**BORN IN FIRE, SHAPED BY ICE:  
A VIRTUAL REALITY FIELD TRIP TO  
THE DRAMA OF MOURNES**

David Kirk  
(BGS President)

FEBRUARY 18

**A NEW LOOK AT THE MOURNES:  
CONTINUING THE DEBATE, 80 YEARS ON**

Dr Carl Stevenson  
(School of Geography, Earth and  
Environmental Sciences,  
University of Birmingham)

MARCH 10

**THE GREEN RIVER FORMATION OF  
WYOMING:**

**FISH AND EARLY MAMMALS FROM  
THE EOCENE OF NORTH AMERICA**

Dr John Nudds  
(School of Earth, Atmospheric and  
Environmental Sciences,  
University of Manchester)

APRIL 21

**ANNUAL GENERAL MEETING**

**BELFAST GEOLOGISTS' SOCIETY**

President:  
Mr D. KIRK

Vice Presidents:  
Mr G. EARLS, Eur. Geol., B.Sc., M.I.M.M., P. Geo.  
Dr T. B. ANDERSON  
Dr R. A. BAZLEY  
Dr P. LYLE

Honorary Secretary:  
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31 Knock Eden Park, Belfast BT6 0JF  
Phone: 9064 2886  
Email: peter.millar@nireland.com

Honorary Meetings Secretary:  
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**SUMMER PROGRAMME  
2008**

Further information on:  
[www.habitas.org.uk/es2k](http://www.habitas.org.uk/es2k)

**APRIL 26**

**QUATERNARY EVENTS IN THE  
NORTHEAST ATLANTIC**

Leader Marshall McCabe

*A long day excursion covering 8 localities illustrating the sensitivity of the last ice sheet to climate signals from the North Atlantic. Ideally the field guide "The last glacial termination in Northern Ireland" by McCabe and Dunlop (available from GSNL, £10) should be read in advance. Meet at the Islandhill car park off the Comber/Nards Road (J488688). Note the early start, 9.00am sharp.*

**MAY 16 to 19**

**PRESIDENTIAL EXCURSION: KARST AND CAVES**

*An exploration (and explanation) of some of the dramatic features of the Burren. One day on the limestones and shales, another examining the dramatic landscapes of the eastern Burren and the final half day at the "Flaggy shore" on the north coast*

Meet in the square in the middle of Lisdoonvarna (R135984) at 10 am on Saturday.

**JUNE 14**

**CLAY BRICKS – COALISLAND BRICK CLAYS**

Leader Ian Irwin

*Joint meeting with the Belfast Naturalists' Field Club. A visit to Tyrone Brick for a factory presentation on the brick making process followed by a visit to their clay pit to inspect the geology of their raw material*

Meet at the main office area near Dunganon (H802644) on the left of the A45 driving towards Coalisland at 11 am. Transport to and from the clay pit has been arranged.

**JUNE 24 (Tuesday evening)**

**AN EVENING OF KINKS, DYKES AND  
CLEFTAGE AT KEARNEY POINT**

Leader Bernard Anderson

*Structures in Silurian sediments*

Meet at Kearney Village NT Car Park (J650517) at 6 pm

**JULY 26**

**THE ANATOMY OF A FORMATION;  
THE CARBONIFEROUS ROCKS OF CO FERMANAGH**

Leader Ian Mitchell

*What constitutes a formation and how are its limits defined? A day exploring and interpreting the different types of formation boundaries using the Carboniferous rocks of the Kesh area of Co Fermanagh as case studies. Meet at the Blacktown Arms, Killen (H231776) on the B72, 8 km SW of Castleberg at 10 am.*

**AUGUST 5 (Tuesday evening)**

**BOASTERS, BANKERS AND  
SHERWOOD SANDSTONE**

Leader Philip Doughty

*An evening in the less visited North Quarry at Scrabo. Meet at the entrance path (J476735) leading to the quarries from opposite 19 Old Belfast Road, Newtownards at 6 pm.*

**AUGUST 23**

**IAPETUS, INTRUSIONS AND ICE**

Leader Sadhbh Baxter

*A day on the Cooley Peninsula looking at sediments metamorphosed in the closing Iapetus Ocean; Palaeogene granite and gabbro intrusions and the local effects of glaciation.*

Meet in the car park at the Tourist Office in Carlingford (J189117), just off the main R173 at 10.30 am.

**SEPTEMBER 20**

**EARTH WORKS**

Leaders Annie Given, Thea Allen and Philip Doughty  
*The ongoing story of human interference with perfectly good rocks; a trip through time, and north Ards, considering the interface between industry and geology. Meet at the Wildfowl and Wetland Trust at Castle Espie (J492671) in the Visitor Centre, at 10 am where the day will start with coffee. An admission fee may be charged.*

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**WINTER PROGRAMME  
2008-2009**

Winter meetings are held in  
the Main Hall,  
St Bartholomew's Church Hall,  
Stranmillis Road, Belfast,  
at 7.30pm on Mondays.  
Refreshments available from 7.00pm.

Further information on:  
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**2008**

**OCTOBER 20**

**DUBLIN'S SEA DRAGON AND  
THE PALAEOBIOLOGY OF PLESIOSAURS**

Dr Adam Stuart Smith  
(Trinity College Dublin)

**NOVEMBER 17**

**LEFTOVER LIFE TO LIVE:  
GETTING BITTEN BY THE GEOLOGY BUG**

Dr Tony Bazley  
(BGS President)

**DECEMBER 15**

**MARBLES IN TIME AND SPACE**

Monica Price  
(Oxford University Museum of Natural History)

**2009**

**JANUARY 12**

**ANDESITE VOLCANOES OF THE PACIFIC RIM:  
CONDITIONING THE CRUST  
FOR A SUPERVOLCANO**

Prof John Gamble  
(University College Cork)

**FEBRUARY 16**

**FOURTH HAROLD WILSON  
MEMORIAL LECTURE**

(supported by ES2k, GSNI  
and the British Geological Survey)

**CHARLES DARWIN: GEOLOGY, GEOGRAPHY  
AND THE THEORY OF EVOLUTION**

Prof. Peter Bowler (Queen's University Belfast)

**MARCH 16**

**RECONSTRUCTING SEA-LEVEL CHANGE:  
WHAT THE PAST CAN TELL US  
ABOUT THE FUTURE**

Dr Robin Edwards  
(Trinity College Dublin)

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**APRIL 18**

**MURLOUGH SAND DUNES AND MOURNES GRANITE**

Leaders Jo Whatmough and David Kirk

*The morning will be spent investigating the history and evolution of the coastal dune system in the Murlough National Nature Reserve followed in the afternoon by a walk along the Mourne Coastal Path exploring the many intrusions along the shore. Meet at the Dundrum Castle car park (J405369) at 10 am, late joiners 30 minutes later at the National Trust car park (J394338), signposted from the A2 as Murlough Beach National Nature Reserve.*

**MAY 16 to 17**

**PRESIDENTIAL EXCURSION:**

**SLIGO, SNAKES AND MORE**

*Classic Carboniferous, especially coral reefs, really old Sliswood rocks and wonderful landscapes.*

Meet in Sligo town at the car park of the Sligo County Council Riverside Office (G699359) at 11 am.

**JUNE 10 (WEDNESDAY am)**

**SALT MINES AT CARRICKFERGUS**

*Limit 7 members*

Preference given to those who have not previously visited.

Meet 10 am. Final details from President.

**JUNE 27**

**LOUGH NEAGH BOAT TRIP (JOINT WITH BNFC)**

Leader Jim Rutherford

*Full day boat trip with barbecue lunch included. A variety of cultural interests will be explored and explained.*

*Cost £33, cheques payable to Belfast Naturalists' Field Club please and sent in advance to Mrs Joan Semple, 6 Seapark Terrace, Holywood, Co Down, BT18 0LJ no later than Friday 12th June.*

Meet at Ballyronan Marina (H947855) at 10 am.

**JULY 25**

**THE DALRADIAN GEOLOGY OF THE LACK INLIER**

Leader Mark Cooper

*The Mullaghcam Formation in the Sperrin Mountains is currently mapped as part of the Southern Highland Group but recent work suggests an older, Argyll Group, age. A day examining the typical metamorphic rocks of the inlier that provide the evidence.*

Meet on the main road in Lack (H275665) at 10.30 am.

**AUGUST 11 (TUESDAY pm)**

**CONSERVING THE GEOLOGICAL HERITAGE:  
WHITESPOTS**

Leader Michael Dempster

*A new approach to a familiar site, the Whitespots lead mine, examining the designation history of this Area of Special Scientific Interest and an exploration of its relevance to the industrial and built heritage.*

Meet at the Whitespots car park adjacent to the Somme Centre (J499784) at 6 pm.

**AUGUST 29**

**POTHOLES, PAHOEHOE AND PEAT**

Leader Mike Simms

*A close look at the amazing 60 million year old limestone/basalt contact in Magheramorne Quarry, followed by a walk along the shore of Larne Lough where sea floor sediments from the last 12,000 years now lie high and dry. Stout water resistant footwear advised.*

*All wishing to attend must notify:  
michael.simms@nmni.com T: 9039 5242  
by 17th August.*

Meet at the railway station car park, Magheramorne (J434986) at 10.30 am.

**SEPTEMBER 18 to 21**

**THE YORKSHIRE DINOSAUR COAST**

Contact: phillip.doughty@ntworld.com T: 9059 4636