

Royal Society of Chemistry

ANNUAL INTEREST GROUP REPORT FOR 2008

for use by RSC Interest Groups (i.e. Subject Groups and Sectors) including Analytical Division Regions

This report will normally appear on the appropriate RSC Interest Group web page.

<http://www.rsc.org/InterestGroups>

RSC Groups including Analytical Division Regions are asked to complete this form and return it to: Anne Bennett, Royal Society of Chemistry, Burlington House, Piccadilly, London W1J 0BA. Email: bennetta@rsc.org. Fax: 020 7734 1227 or, if you prefer, to your usual RSC staff contact.

INTEREST GROUP NAME or AD REGION NAME	Electroanalytical Group
Chairman	Dr. R. Kataký
Secretary	Prof. J.P. Hart
Treasurer	Prof. B.J. Birch
Number of members on the committee	13 (and 1 co-opted)
Editor, Newsletter (if applicable)	
Submitted by	Prof. J.P. Hart
Signed	
Date	7/4/09

Please list below the dates of your proposed AGM and Committee Meetings for 2009 (where applicable).

Annual General Meeting 2009 (if being held)

Date: Venue:

Proposed Committee Meetings 2009

Date: 25th March, Venue: Birkbeck College, London

Date: 16th September, Venue: University of Manchester

Date: 25th November Venue: Birkbeck College, London

Date: Venue:

FINAL ACCOUNTS FOR THE YEAR ENDING 31 DECEMBER 2008

Please attach a copy of the financial report you have sent to the RSC Accounts Department

Deadline for receipt of Financial Accounts: **14th February 2009**

Deadline for receipt of Annual Report by members: **31st March 2009** (Annual Report can be posted on webpage if not sent to members individually)

ACTIVITIES UNDERTAKEN IN 2008

Please report below on activities undertaken by the Group or AD Region in 2008. If you have more detailed information about any particularly successful events, or advice for other Groups and AD Regions, you may use a separate sheet. For more events continue as necessary.

	Date	Venue and number of participants	List of Speakers	How was event publicised (before and after meeting)?	How does meeting fit with RSC strategy / Awards Given?	Any other comments?
Event 1 Name: Electroanalysis and Sensors Session at, "Electrochem 2008"	15/09/09 to 17/09/08	University of Liverpool, 80-100 participants	Damien Arrigan (keynote) Martina Piano Adrian Crew Zainab Redha Dhana Lakshmi Joanna Hajdukiewicz Darren Walsh Arun Arora Eleni Bitziou Pascal Salaun Ray Ansell Roohollah Kachoosangi Micheal Scanlon	Circulation by SCI	This was a joint meeting, organised by Interest Groups.	Joint with Electrochemistry Group (RSC) and Electrochemical Technology and Materials Groups (SCI)
Event 2 Name: Post-graduate Research Topics	19/11/08	Birkbeck College, London, 32 participants	Frankie Rawson Laura Hutton Mark Rodgers Courtney Collins Arun Arora Beinn Muir	Circulation by Electroanalytical Group		Half-day meeting devoted to short talks by postgraduate research students from Britain and Ireland
Event 3 Name:						
Event 4 Name:						

RSC General Assembly	14 and 15/11/08	Did you attend this meeting? Yes	Any comments: Dr Katakya attended this meeting and presented the group strategy and input for the RSC roadmap.			

SCIENTIFIC MEETING SCHEDULE 2009

Please report below on proposed activities for your Group or AD Region in 2009. For more events continue as necessary on a separate sheet.

	Event 1				Event 2				Event 3				Event 4			
Proposed Meeting Date	2-7 August, 2009				16-17 September 2009				25 th November, 2009							
Proposed Meeting Venue	SECC, Glasgow				University of Manchester				Birkbeck College, London							
Scientific Area/Topic	Miniaturised Electroanalytical Systems At 42 nd IUPAC CONGRESS				Electroanalysis and Sensors At Electrochem 2009				Postgraduate Research Topics							
Is meeting for Education/ Training / Networking / Other purposes?	E	T	N	O	E	T	N	O	E	T	N	O	E	T	N	O
	X			X	X			X	X							
Are any other RSC Interest Groups and/or RSC Regions involved?	YES				YES				NO							
List any other collaborators (incl. International).																
Give details of any awards to be presented.																
Will certificates of attendance be issued for CPD purposes?																
PUBLICITY																
Have details been entered onto webpage?																
Will RSC Grapevine be used to publicise meeting?	YES				YES				YES							
Will any other publicity routes be used?	YES				YES				YES							
Will RSC or IG promotional material be distributed?																

ADDITIONAL INFORMATION

Committee expertise that you would like highlighted on your Group/Region web page?

(please refer to AD East Anglia Region at

<http://www.rsc.org/Membership/Networking/InterestGroups/Analytical/ADRegions/ADEARRegion/Committee.asp>)

Ritu Katakya (Durham):

- sensors: coupling molecular or biomolecular recognition involving host-guest type interactions to signal transducers to generate an electrical signal proportional to the target analyte concentration
- bioelectrochemical studies of ion-channel dynamics and of redox proteins.

Peter Fielden (Manchester):

- measurement phenomena that include electroanalytical processes, electrokinetic separations (especially isotachopheresis), genotoxicity assays/ flow cytometry, and a varied range of sensor systems.
- The exploitation of these phenomena underpinned by fluidic transport systems at both the macroscopic and microscopic scales.

John Hart (University of the West of England, Bristol):

- The design and development of disposable screen-printed electrochemical sensors and biosensors for applications in biomedicine, environmental studies and agri-food analysis.
- The immobilisation of suitable biorecognition elements onto/into transducers to provide selectivity towards the target analyte. E.g. enzymes, antibodies, molecularly imprinted polymers; organic ligands, calixarenes.
- Voltammetric techniques, in conjunction with screen-printed electrodes/microband electrodes, for the determination of biologically and environmentally important compounds.
- HPLC/Electrochemical detection for the determination of trace levels of vitamins and coenzymes and drugs.

Brian Birch (Emeritus Professor, Bedfordshire):

- Researcher and practitioner in "classical" electroanalytical topics
- Research and development in single use medical devices (material science, immunology, nanotechnology, instrumentation)
- Research and development of sensors for food and environmental applications

Damien Arrigan (Tyndall National Institute, Cork):

- electroanalytical chemistry at microelectrode arrays and at liquid-liquid interfaces
- interface miniaturisation within microsystem and nanotechnology devices.
- Biomolecule detection and sensing.

Richard Compton (Oxford):

- micro and nanoelectrode arrays for trace analysis, especially stripping voltammetry of trace metals.
- electrochemical gas sensors
- modelling and simulation of electroanalytical processes

Stan van den Berg (Liverpool):

- Development of sensors and methods for in-situ, or on site detection of trace metals (e.g. copper mercury arsenic) in natural waters including groundwaters and seawater
- Fundamental studies of metal speciation and of organic compounds such as

thiols and humic substances in the marine environment

Richard Brown (NPL):

- Maintaining the UK's link to primary standards of pH.
- Research into the measurement of pH using primary and secondary methods.
- Research into improvements in the Harned Cell methodology.
- The measurement of trace concentration of ions in solution using novel designs for ion selective electrodes.
- The use of stripping voltammetry for trace metals analysis.

Jonathan Slater (Birkbeck):

- Electroanalytical methods of analysis, sensor development including microsensors, gas and chemical sensors and pseudo intelligent instruments.

Robert Porter (NPL):

- Electrochemically based immunodiagnostics
- Regulatory matters for medical diagnostics

Arnold Fogg (Luton):

- Research in voltammetric methods over a wide range of applications

Other information/comments: