

BACN NEWS

Issue 5

Summer 2008

The Newsletter of the British Association for Cognitive Neuroscience

Swansea University



SWANSEA UNIVERSITY
PRIFYSGOL ABERTAWE

www.swansea.ac.uk

Swansea 2008

This year, the conference is heading to Wales. It is taking place at Swansea University starting on Monday 1st of September.

Swansea University campus is situated in an attractive seafront location and is in easy walking

distance of the city and its attractions. It is also located close to the spectacular Gower Peninsula (one of the first places designated 'An Area of Outstanding Natural Beauty' under the Act of 1949).

Symposia this year include:

- Language disorders
- EEG source localisation
- Functional Connectivity

As usual there will also be ample opportunity to catch up on lots of the many, various and splendid psychophysiological studies going ahead in the UK and abroad in our poster session and two platform presentation sessions. We particularly encourage students to participate in these sessions. Bursaries are

available to help with the cost of attending (see page 8 for details).

Deadline for abstract submission is July 15th (see page 4).

WICN

This year's conference is being jointly held with the 2nd annual conference of the Welsh Institute for Cognitive Neuroscience (WICN). WICN encompasses the three leading Welsh universities - Bangor, Cardiff & Swansea. So, Monday & Tuesday will be BACN days, Wednesday will be a joint BACN-WICN day, Thursday & Friday will be all WICN! WICN have kindly offered to subsidise BACN members who wish to attend their conference (see page 3 for details).

Don't forget to...

- Register
the conferences run from Mon Sept 1st to Fri 5th
- Submit an abstract
deadline is July 15th
- Pack your bathing costume!
- Come & enjoy yourself

SWANSEA 2008

Dear colleagues and friends, this year, on behalf of the Association, I would like to invite you to our Annual Conference in Swansea. This will be our first meeting in Wales and you are assured to be in for a great treat!



I am pleased to say that we expect yet another excellent scientific programme. Topics range from 'auditory basis of language disorders' with a keynote from Prof Sophie Scott (UCL), to 'Memory research' featuring a lecture by Dr Ed Wilding (Cardiff). Of special interest will be a symposium and workshop on 'New Developments in EEG Source Localisation', with representatives from major developers demonstrating their latest software.

We would like to think that we provide a valuable scientific forum on a small scale - intentionally in contradistinction to the mega-conferences around the world. We are not a 'members only' club, quite the contrary; we welcome national and international visitors and especially new members. We particularly encourage scientists at the beginning of their careers to come and present their research in a friendly and supportive atmosphere. This year we will provide an even larger number of student bursaries: six in

total, which will include £150 and free conference registration. You can read the reports from last years' winners describing their experiences in Dundee in this newsletter.

For those of you who are keen to extend their summer holiday, the conference is located right next to the beach of Swansea Bay - feel free to bring your surf boards!

Look forward to seeing you there, Torsten.

Torsten Baldeweg,
Chairman BACN

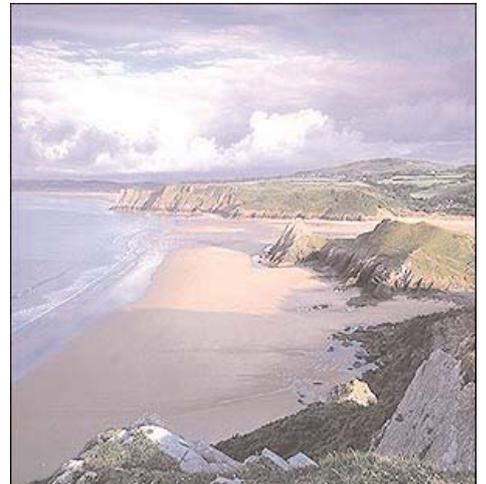
PS: If you are a keen walker - come and join us a few days before the conference on a walk along the beautiful south Pembrokeshire coastal path. Contact me on (T.Baldeweg@ich.ucl.ac.uk) and I will send you more details of the planned trip.

About the Conference venue...

Swansea University is set in rolling parkland overlooking the majestic sweep of Swansea Bay. The campus is a stone's throw from the old fishing village of Mumbles, whose unique seaside atmosphere is complemented by a vibrant social scene popular with students. Travel just a few minutes in the other direction and you reach the Maritime Quarter, a modern waterfront village complete with restau-

rants, art gallery, theatre and a busy marina.

The Gower Peninsula, Britain's first "Area of Outstanding Natural Beauty", is within easy reach from the University. Unspoilt beaches and dramatic cliff top views provide a stunning location for water-sports, cycling and walking, as well as unparalleled research opportunities for students studying natural sciences.



Swansea itself is a lively city of 230,000 people. Its friendly shopping centre includes a world-famous indoor market that dates back to the Middle Ages and offers traditional, locally produced food. Culturally, the city is home to the Dylan Thomas Centre, which celebrates the life and work of the great Welsh poet. Theatres, festivals, museums and galleries enhance Swansea's rich cultural diversity.

London is less than three hours away by train, Cardiff an hour. But with parks, castles, woodland, wildlife centres and breathtaking coastal scenery surrounding the city, why would you want to go anywhere else?

(From: <http://www.swan.ac.uk/university/TheCampus/Location/>)



SWANSEA 2008

CONFERENCE PROGRAMMES

Monday 1st September (BACN)

- 10.00-2.00 Registration
2.00-2.15 Welcome from the BACN Chair & Conference organiser
2.00-3.30 Symposium 1: 'The Auditory Basis of Language Learning Impairments'
3.30-4.00 Tea
4.00-5.00 Symposium 1: (continued)
5.00-6.00 Keynote Speaker 1: Sophie Scott

'fMRI studies of speech processing', Institute of Cognitive Neuroscience, University College London

Committee Meeting / Dinner

Tuesday 2nd September (BACN)

- 9.00-11.00 Symposium 2: 'New Developments in EEG Source Localisation'
11.00-11.30 Tea/Coffee break
11.30-12.00 Symposium 2: 'Round Table Discussion'
12.00-1.00 BACN Annual General Meeting
1.00-2.00 Lunch
2.00- 3.00 Keynote Speaker 2: Kees Stam

'Exploring Normal and Disrupted Brain Networks with EEG and MEG' VU University Medical Center Amsterdam

- 3.00-3.30 Tea/coffee
3.30-5.30 Symposium 3: 'New Developments in Functional Connectivity'
5.30-7.30 Poster Session (with a cheese & wine reception)

Wednesday 3rd September (BACN/WICN)

- 9.00-10.30 Platform presentations
10.30-11.00 Tea Coffee
11.00-12.00 Platform presentation
12.00-1.00 Keynote Speaker 3: Dave Benton

'Nutrition, the Brain & Cognition', Dept of Psychology, Swansea University

- 1.00-2.00 Lunch
2.00-4.00 yet to be announced
4.00-4.30 Tea/coffee
4.30-5.30 Keynote Speaker 4: Dr Ed Wilding

'New directions in electrophysiological studies of memory retrieval: Beyond correlates of retrieval success' Dept of Psychology, Cardiff University

6.00-12.00 Tour of Gower and Conference Dinner



2nd Annual Welsh Institute of Cognitive Neuroscience Conference.

The conference continues until Friday lunchtime with the 2nd Annual Conference of the Welsh Institute for Cognitive Neuroscience. Over the next day and a half, research funded by WICN will be presented in symposia on the WICN research priorities: Language & Thought, Learning & Memory, Attention & Emotion and Vision & Action. BACN members are invited to continue their stay at Swansea and may attend the WICN conference at a reduced rate

Thursday 4th September (WICN)

- 9.00-11.00 WICN Symposium 1: 'Language & Thought'
11.00-11.30 Tea/Coffee break
11.30- 1.00 WICN Symposium 2: 'Learning & Memory'
1.00- 2.00 Lunch
2.00. 3.00 WICN Keynote Speaker 1: Toby Lloyd Jones, Swansea University
3.00- 3.30 Tea/coffee
3.30- 5.30 WICN Symposium 3: 'Attention & Emotion'
5.30- 7.30 WICN Collaborative Open Discussion & Poster Session

Friday 5th September (WICN)

- 9.00-11.00 WICN Symposium 4: 'Research Presentations by the WICN Research Officers'
11.00-11.30 Tea/Coffee break
11.30-1.00 WICN Symposium 5: 'Vision & Action'
1.00-2.00 Lunch

Conference Closes at 2.00pm on Friday 5th September.

SWANSEA 2008

Keynote Speakers

Keynote Speaker 1: Professor Sophie Scott 'fMRI studies of speech processing'

Sophie Scott is Professor at the Institute of Cognitive Neuroscience, UCL. Her main research interests are the neurobiology of speech perception, including the functional sub systems in human auditory cortex, the evolution of speech, the difference between intelligibility and comprehension, and profiles of recovery in aphasia. This relates to her work on dyslexia and processing of emotional information in the voice. She is also involved in a project looking at reading and rehabilitation in hemianopic alexia.



Keynote Speaker 2: Professor Kees Stam 'Exploring Normal and Disrupted Brain Networks with EEG & MEG'

Kees Stam is Professor of Clinical neurophysiology at the VU University Medical Center, Amsterdam. His current research interests involve the development and use of nonlinear time series analysis of EEG and MEG signals to study normal and disturbed cognitive function in a broad range of neurological disorders such as Alzheimer's and Parkinson's disease, multiple sclerosis and brain tumour patients. Kees Stam is a member of the board of directors of the Institute for Clinical and Experimental Neuroscience (ICEN)



of the VU, chair of the science committee of the ICEN, and member of the science board of the VU. He is a member of the editorial board of Human Brain Mapping and the Journal of Neurology, Neurosurgery and Psychiatry, and associate editor of Clinical Neurophysiology

Keynote Speaker 3: Prof Dave Benton 'Nutrition, the Brain & Cognition'

Dave Benton is Professor of Psychology at the department of Psychology, Swansea University. He is an internationally renowned expert on the effects of nutrition and cognition. His primary objective is to make dietary recommendations, or where appropriate to develop food products, that will facilitate mood and cognitive functioning. His research interests include: dietary induced changes in blood glucose on mood and cognition, the influence of meals, in particular breakfast, on cognition, the impact of various vitamins and minerals on mood and cognition, the role of macro-nutrient intake in mood and cognition (in particular the importance of fat intake and the level of fatty acids in the diet), food craving and health education



Keynote Speaker 4: Dr Ed Wilding 'New directions in electrophysiological studies of memory retrieval: Beyond correlates of retrieval success'

Ed Wilding is reader at the Dept of Psychology, Cardiff University. His research interests are in human long term memory. He studies psychological models of human memory, and assess the adequacy of competing models. He is particularly interested in how we can exert control over our memories, and how these control processes change with age. A central issue here is how we manage to extract successfully specific bits of information from memory from amongst so many other highly similar bits. In pursuing these research questions, he investigates how people complete memory tasks, and measure brain activity while they are doing this using event-related potentials (ERPs).



For more information on the symposia see page 6.

Abstract Submission

Abstracts should be sent to
Prof Adrian Burgess
A.P.Burgess@swansea.ac.uk
by July 15th

Twmpath - a Welsh Ceilidh (or knees-up)

This year's conference dinner will take place at the King Arthur Hotel, Reynoldston on the glorious Gower Peninsula. The evening will include a traditional Welsh Twmpath (somewhat akin to a Scottish Ceilidh) following on from the success of last year's dancing in the distillery (see back page for incriminating photos!)



SWANSEA 2008

Prices for conference attendance (including lunch and refreshments)

From	To (inc lunch)	BACN Member		Non-member	
		Full	Student	Full	Student
Mon 2.00pm to	Tuesday lunch	£35.00	£25.00	£40.00	£35.00
Tues 2.00pm to	Wednesday lunch	£35.00	£25.00	£40.00	£35.00
Wed 2.00pm to	Thursday lunch	£17.50	£12.50	£20.00	£17.50
Thurs 2.00pm to	Friday lunch	£17.50	£12.50	£20.00	£17.50

Evening meal for Monday, Tuesday & Wednesday night is £18; for Thursday night it is £9 (evening meal on Wednesday only needed if you do not attend the conference dinner). The conference dinner is £35. Accommodation is £80 per night for Monday & Tuesday and £40 per night for Wednesday & Thursday. **Please see page ? for the registration form.**



What the Price Includes:

Conference Attendance: this is paid for on a 24-hour basis running from 2.00pm on the 1st day until 2.00pm the following day. Don't ask me why. All I'm told is that 'It's the industry standard' - as if catering were an industry. Refreshments (tea/coffee/mineral water/fruit juice and biscuits) will be available at specified times morning and afternoon. The lunch is a Hot & Cold Buffet.

Evening meal: this is an informal conference dinner suitable for those who chose not to eat out. Swansea and the Mumbles have a wide range of restaurants and you may prefer to eat at these instead. Swansea is 1.5 miles away and the Mumbles 3 miles. Buses and taxis are readily available. Go on, be adventurous and see what life outside the campus offers (recommended).

Conference Dinner (including Twmpath): A short trip to the Gower

Peninsula to eat at The King Arthur Hotel, Reynoldston <http://www.kingarthurhotel.co.uk/contact/contact.htm> to have a dinner with a 'Welsh Flavour'

Set Three-course Menu: Avalon 2008

Starters: Homemade Welsh Cawl (Lamb & Vegetables) or Penclawdd Cockles, Laverbread & Bacon Bits topped with Cheese or Homemade Welsh Rarebit (Cheese with toasted bread)

Main Course: Chicken Supreme wrapped in Camarthenshire Ham, served with an Y Feni Cheese Sauce (Mustard Seed) or Fillet of Salmon served with a White Wine, Leek & Cream Sauce or Welsh Lamb Noisettes served with a Red Wine & Mint Jus or Homemade Welsh Brie & Cherry Tomato Tartlets (All served with a selection of seasonal vegetables and new potatoes).

Desserts: A selection of Welsh Cheeses & Biscuits or Profiteroles served with a Chocolate & Welsh Cream Liqueur Sauce or Joe's Swansea Vanilla Ice Cream And

finally: Coffee & Mints. Oh, and we'll throw in some wine too.

Accommodation: Accommodation is available in the university halls of residence (on the site of the conference venue). A small number of twin/double rooms are available on request. Alternatively, you may seek accommodation independently in Swansea or the Mumbles. **For further information please see <http://www.visitswanseabay.com/index.cfm?articleid=12987>.**

Why are the prices cheaper on the third and fourth days?

WICN has kindly agreed to subsidize BACN members who choose to stay on for the WICN Conference. WICN is made up of the three leading Universities in Wales and which boast between them world-class imaging facilities and many big, international academic names. The WICN conference is the annual meeting of this august gathering and is well worth staying on for. Details of the WICN conference will be out soon.

SWANSEA 2008

Symposium 1:

'The Auditory Basis of Language Learning Impairments'

Organiser: Dr Torsten Baldeweg,
Institute of Child Health, UCL

2.10 Caroline Witton - Auditory processing disorder and its overlap with dyslexia and other developmental disorders (Aston University)

2.30 Kate Baker - ERP correlates of structural brain differences in children with SLI (Royal London Hospital & Institute of Child Health, UCL)

2.50 Lorna Halliday - Auditory maturation: an ERP study of children with dyslexia versus children with mild to moderate hearing loss (Institute of Child Health, UCL)

3.10 Tim Fosker/ Usha Goswami Rise time and duration detection deficits in children with dyslexia - an ERP study (Faculty of Education, Cambridge)

3.30 Tea/Coffee

4.00 Marie Gomot - fMRI/ERP studies of auditory processing in children with autism (Autism Research Centre, Cambridge)

4.20 Katrin Schulze - Music, language, and working memory (Institute of Child Health, UCL)

4.40 Sebastian Jentschke - Musical training in children with SLI (Institute of Child Health, UCL)

5.00 Sophie Scott Keynote Speaker 1: 'fMRI studies of speech processing' (Institute of Cognitive Neuroscience, UCL)

Symposium 2:

'New Developments in Source Localisation'

Organiser: Dr Gaynor Evans,
EGL/Aston University

One of the main driving forces behind the enormous growth of interest in Cognitive Neuroscience has been the development of methods for localising cognitive functions. Although this has largely been driven by measures based on blood flow (e.g. fMRI and PET), there have also been important developments in EEG/MEG source localisation, and despite the formidable problems faced, much progress has been made. For this symposium, we have invited leading scientists from the main commercial providers of EEG/MEG systems and software to discuss the recent progress in this area and to outline promising future developments. The emphasis will be on the theory behind the techniques not the commercial aspects. Speakers currently agreed are from CURRY, EGL,

Brain products and Neuroscan. The symposium will be followed by a round table discussion on Source Localisation.

Symposium 3:

'New Developments in Functional Connectivity'

Organiser: Prof Adrian Burgess,
Dept of Psychology, Swansea

2.00 Kees Stam Keynote Speaker 2: 'Exploring Normal and Disrupted Brain Networks with EEG and MEG' (VU University Medical Center, Amsterdam)

3.00 Tea/Coffee

3.30 Avgis Hadjipapas - 'Time varying classification distance between stimulus states to predict subsequent evoked and behavioural responses to stimulus changes' (Wellcome Trust Laboratory for MEG Studies, Aston)

4.00 Dr. Joydeep Bhattacharya t.b.a (Psychology Dept, Goldsmiths College)

4.30 Tarek Medkour/ Andrew Walden - 'Partial Coherence, problems, pitfalls and solutions' (Dept of Mathematics, Imperial College)

5.00 Adrian Burgess - 'Brain networks and Visual Feature Binding' (Dept of Psychology, Swansea)

Symposium 4:

Memory

Organiser: Prof Adrian Burgess,

2.00 Andrea Greve - 'fMRI study investigated the influence of semantic knowledge on episodic memory' (School of Psychology, Cardiff University)

2.30 Louise Venables/ Andy Parrott - 'Recognition Memory in Ecstasy/MDMA & Cannabis users: novel EEG findings' (Dept of Psychology, Swansea University)

3.00 Stephan Boehm - 'Evidence for differential retrieval effects for faces for working, declarative and non-declarative memory systems' (School of Psychology, Bangor University)

3.30 Seralynne Vann - 'Fornix damage and memory' (School of Psychology, Cardiff university)

4.00 Tea/Coffee

4.30 Ed Wilding Keynote Speaker 4: 'New directions in electrophysiological studies of memory retrieval: Beyond correlates of retrieval success' (School of Psychology, Cardiff University)

DUNDEE 2007

Every year BACN provides bursaries for students to attend the conference. Last year, 3 bursaries were awarded. In return, the recipients write a conference report...

This was my third visit to the BACN annual conference but the first occasion on which I gave an aural presentation of my work. Having presented a poster at the previous 2 conferences in Aston and Coventry I was confident that the friendly and positive atmosphere that seems a feature of the conference would be the ideal environment to develop my presentation skills. True to form, my talk was well received and I had a number of interesting discussions in the breaks following the session. Since my talk was scheduled in the first session of the first day I was able to relax and enjoy the rest of the conference. I was particularly impressed with the diversity offered in the program this year, which introduced me to a number of fascinating areas of cognitive neuroscience that might have otherwise passed me by. Perhaps the highlight of the weekend was the conference dinner, for which a very big thank you should go to Douglas Potter. I must admit I was slightly sceptical when all the conferences delegates were piled on to crowded double-decker bus to drive through the Scottish countryside, but the evening ahead was well worth the drive. Our arrival was treated with typical Scottish hospitality as we disembarked the bus to the sound of bagpipes. After an

enlightening tour of the Glenturret distillery, Scotland's oldest whiskey distillery, we were treated to a delicious three course meal followed by a traditional Scottish Caledh with live music and dancing. All in all, another fantastic conference; bring on Swansea 2008!

**Gethin Hughes
Goldsmiths, University of
London**

It was wonderful to be a part of this amazing event that takes place annually for cognitive neuroscientists across UK. It is important for the community to be able to relate and communicate each others research and most recent findings. After attending this conference, I think I would try my best to attend it in future, as it was extremely informative, helpful and motivational for me.

I particularly enjoyed it as it involved many ERP research studies, a method that I am specialised in. At the same time it was very useful to learn more about other techniques in cognitive neuroscience and understand the specific benefits of different recording methods. Equally important is to broaden one's horizons in the sense of understanding and learning about other areas of research and finding generic characteristics and specific features in theory, design and analysis approach in various relevant psychology areas. I found the first day of the conference very interesting with

many relevant talks both at the symposiums and the open platform presentations. However, it would have been even better to have slightly broader variety of research areas included in these sessions, such as visual electrophysiology, developmental studies, visuo-motor, learning and language and other perceptual and cognitive research topics. The poster session was extremely interesting as well for me, both as a presenter and as an attendant. The smaller settings are perhaps more informal and productive sometimes. The second day of the conference was even more exciting for me as I am very interested in various learning and psychological disorders, as these areas have both major theoretical value for understanding the function of the human brain both in norm and impairment, as well as enormous practical value, such as help in diagnosis and treatment to improve the quality of life for the people who suffer from these disorders. The last session of the second day emphasised again and reminded us all about one of the most important aspects of the scientific research, i.e., its contribution to education and development of children and adults in education. It is so important to keep that awareness of an immediate or long-term contribution of science to our lives. I would also like to mention, that there have been some not so up-to-date or up-to-standard talks. However, this is also one of the reasons why it is so important to have these meetings and help each other with a healthy critique and

DUNDEE 2007

useful insights into each other's work. I am very proud to be a part of this community and hope to contribute to it and learn from it in many years to come.

Naira Taroyan
Sheffield University

It was a great pleasure to attend the annual meeting of BACN in Dundee from 29th to 31st of Aug, 2007. As the only delegate from University of Reading and a very new research student in this area, at the beginning I was worried about that if I would be very lonely in the conference, but after the first morning, I had made some friends. As a first year PhD student, I was not confident at all about questions after my presentation. After hearing a few presentations before me, I found those questions were more likely in a suggestive way, so I did my presentation without fearing and got some really good feedback.

After the first nervous morning, I relaxed and enjoyed the rest of conference. The conference covered a wide range of neuroscience studies in attention, memory, language, face recognition, psychiatry, and music

etc. In addition to well-established studies from keynote speakers and other well-known researchers in this area, some studies presented by young researchers were also very interesting and impressed me a lot, for example, "how knowledge of the world can facilitate memories of events" from Dr Andrea Greve, "Neurocognitive effects of increasing altitude in children and adolescents living above 3,600m" from Javier Virues-Ortega, and "Ageing, Error Detection and Metamory" from Cassandra Richardson, etc. Further, two posters on language from Dr Brendan Weekes and his student were very close to my research area and I had very good conversation with them. Although because of my train problem, I missed half of the last symposium, "The Musical Brain", I still had to say the last symposium was the highlight of the conference and I was amazed by the extraordinary creativity in the work from the few presentations I had heard.

Finally I sincerely appreciate the organization of British Association of Cognitive Neuroscience for providing the great opportunity and friendly environment to meet

researchers in cognitive neuroscience area and awarding me the travel bursary; and I also appreciate the hospitality of University of Dundee for the sea-view accommodation and the delightful ceilidh. I would like to highly recommend new research students to take part in the annual conference of BACN.

Xiaorong Cheng
University of Reading

POSTER AWARDS 2007

Last year in Dundee, two posters tied for best poster: I Fan Su (Brighton) and Leon Neil (Aston). We also awarded four runner-up citations for posters to: Yael Benn, Naira Taroyan, Miloslave Kukleta and Jonathan Silas.

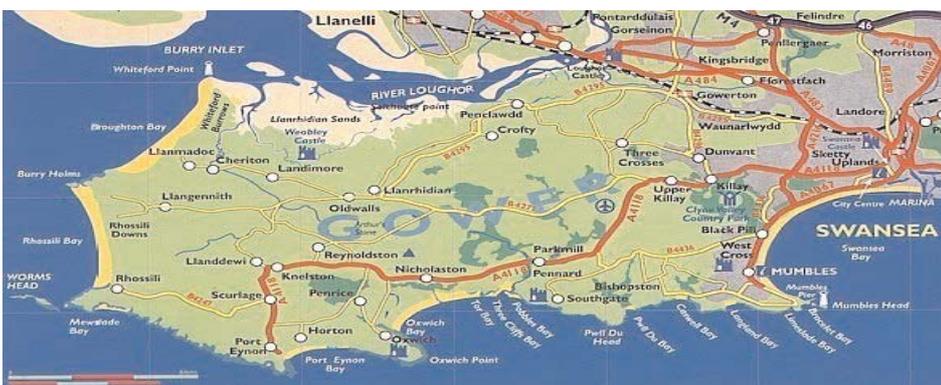


BURSARIES FOR SWANSEA AVAILABLE...

If you are a student and would like to come along to this year's conference, 6 bursaries are available to help with expenses.

£150 + registration fee is available. Please send an abstract to:

Torsten Baldeweg
T.Baldeweg@ich.ucl.ac.uk



Psychophysiological Practicals

One of the main aims of this newsletter is to share ideas and promote Cognitive Neuroscience and Psychophysiology. In this edition, Dr Caroline Brown reveals her topics for psychophysiological practicals to undergraduates, in the hope that others too will share their ideas and a battery of such tutorials can be amassed.



Level 1:

Pheromones - can people detect the sex of the wearer of the t-shirts smelt? (1F & 1M volunteer wear t-shirts from 10pm night before). Based on Russell 1976

EMG: measure increasing EMG with increased force (using dynamometers students press at 5kg, 10kg, 15kg for 2 minutes each); and also "tetanus" - squeezing til lactic acid release & shakes!

Electrodermal Activity: This varies a bit year by year - last year we showed +ve; -ve & 0 images from the IAPPs pictures and tried a correlation between EDA & state/trait anxiety (based on Gray 1987, behavioral activation system/behavioural inhibition system)

Perception: interocular transfer of moving spiral - interesting practical this one, very easy to run! Also we regularly find students who've had corrected strabismus, who don't show interocular transfer (Wade et al 1993).

Level 2:

EOG: as text difficulty increases, so do number of eye movements, number of regressions & reading time

Cardiovascular: Mood, HR & BP measures at baseline, mood induction via sad / happy music; mood, HR & BP measures; mental arithmetic for 4 minutes (numbers shown for 15 seconds, then moved to top left hand corner and grayed, all numbers shown at end of task) - continuous HR measure; Mood & BP measures after. Based on Gendolla & Krusken 2001, except repeated measures and task is the same in both mood cases. Oh, and there's no physical activity, either writing or talking, therefore no increase in HR!

Individual Differences: any/all of the above measures and a huge battery of cognitive tasks - the students decide which ones they want to test and how.

References:

Gendolla G.H., Krüssken J. (2001). Mood state and cardiovascular response in active coping with an affect-regulative challenge. *International Journal of Psychophysiology*, 41(2), 169-180

Gray, J.A. (1987). *The psychology of fear and stress* (2nd Ed.) London: Cambridge University Press.

Russell M.J. (1976). Human olfactory communication. *Nature* 8(260), 520-522.

Wade, N.J., Swanston, M.T., de Weert, C.M. (1993). On interocular transfer of motion aftereffects. *Perception*. 22(11), 1365-80.

JOBS

Research Scientist - Applied Neuroscience

Starlab is looking for an experienced research scientist for the Applied Neuroscience team. The successful candidate will have the opportunity to develop new paradigms in human machine interfaces and will work closely with the hardware team on the development of the next generation of electrophysiological sensor systems. He or she will also design and carry out experiments to further these goals and will help steer future research by contributing to the preparation of proposals and defining new directions in research.

Please visit <http://starlab.es/trabajo/Jobs8.html> for more information.

About Starlab

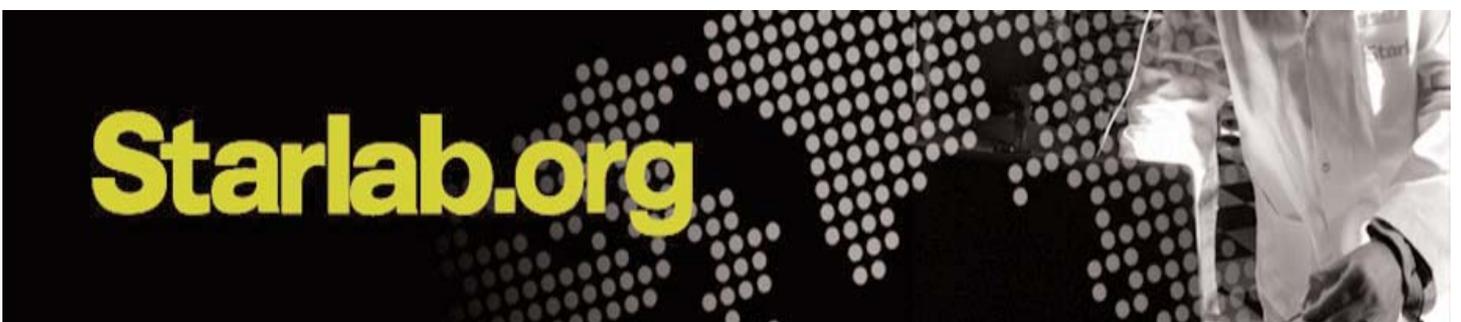
Starlab's vision is to make science more useful, alive, vibrant and faster, with a positive real impact on society. We believe that while good science is being produced by institutions, there is a niche in the market for an inter-disciplinary team with scientific excellence, business discipline and entrepreneurship.

Applied Neuroscience R&D targets new sensors and systems to interface with the human brain and body (interfaces, algorithms and systems). We develop applications such as fatigue, sleep and alertness monitoring, health, biometry and brain-machine interfacing.

See <http://starlab.es> for more information about Starlab, and <http://peachbit.org>, <http://www.humabio-eu.org> and <http://www.sensation-eu.org> for related projects.

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BACN 2008

Membership categories and subscription rates

Members from all categories receive details of Society meetings and the British Association for Cognitive Neuroscience newsletter twice a year. Those members wishing to subscribe to the Journal of Psychophysiology may choose to do so, the cost of which will be included in the membership fee. The categories of membership are: Ordinary members are actively involved in cognitive neuroscience (including psychophysiology) and have full voting rights. Membership fee WITH journal subscription £41, EXCLUDING journal subscription £10. Members who are retired pay WITH journal subscription £36, EXCLUDING journal subscription £5.

Student members are students of cognitive neuroscience (including psychophysiology) who are full-time students, and not in full-time employment pay WITH journal subscription £36, EXCLUDING journal subscription £5.

Affiliates are people who are current members of another European Psychophysiology Society. They do not have voting rights.

Subscribers are those interested but not actively involved in cognitive neuroscience. They do not receive the Journal of Psychophysiology and do not have voting rights.

Honorary members are members of the Association considered to have made an outstanding contribution to cognitive neuroscience (including psychophysiology). Honorary members are elected by the Committee. They have full voting rights but do not pay fees.

Please complete the membership application form and send to:

Dr Yvonne Boyle (Honorary Treasurer and Membership Secretary)
GlaxoSmithKline,
Addenbrooke's Centre for Clinical Investigation,
Addenbrooke's Hospital
Hills Rd., Cambridge,
CB2 2GG
Tel 01223 296 001
email: yvonne.x.boyle@gsk.com

New members must be voted in by the Society at the AGM. Your membership of the Society will begin on the 1st of January once your application has been accepted. You will be informed when this has occurred. Fees should be paid by the 1st of February each year. Payment by standing order from your bank is preferred wherever possible. Please complete the attached standing order form and send to your bank. If payment by standing order is not possible, please send a cheque for the correct amount, made payable to "British Psychophysiology Society" to the above address

Newsletter ideas

I shall make my usual plea to members - if you have any ideas that you would like to see in your newsletter, please do not be afraid to pass them on. For instance, in this issue Caroline Brown has put forward some ideas for psychophysiological practicals. We hope that others will be keen to share their ideas in this area too. Please send any comments or proposals to:
Nick Cooper
ncooper@essex.ac.uk

ABOUT WICN

The Welsh Assembly Government awarded Wales' three leading universities (Bangor, Cardiff and Swansea) £5.17 million to establish the new multi-centre Wales Institute of Cognitive Neuroscience (WICN). Over an initial funding period of four years (to 2009/10), the WICN will draw together and build upon existing excellence at these three Universities with investment in a shared management structure, administrative support, additional high quality academic appointments, as well as equipment and technical support to underpin the development of a world-leading Institute for the study and application of cognitive and clinical neuroscience.

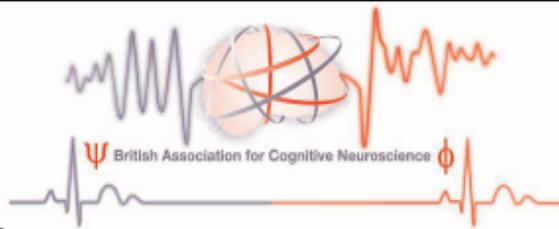
The WICN sets out to address several of the priorities outlined in the Welsh Assembly Government's 'Reaching Higher' strategy. These include the generation of increased research and knowledge transfer income, and the strengthening and increase in capacity of research in Wales through building on existing excellence. In line with this strategy, there will be three core areas of activity:

- a. The reconfiguration of cognitive neuroscience research groups in Wales to develop sustainable research collaboration;
- b. The establishment of a sustainable cross-University Graduate School, and;
- c. The development of partnerships with industry and healthcare, together with dissemination activities.

For more information see the website at:
<http://www.wicn.ac.uk/index.htm>



MEMBERSHIP APPLICATION FORM



Title: _____ Name in full: _____ Date: _____

Preferred address for correspondence: _____

Tel: _____ Fax: _____ e-mail: _____

Current position: _____
Division/ Institution: _____

Degrees & Qualifications: _____

Membership category requested (see overleaf): _____

If Student, when do you graduate? _____ Date: _____

Do you wish to subscribe to the Journal of Psychophysiology? Yes/No (delete as appropriate)

Research Interests: _____

Cognitive neuroscience (including psychophysiological and neuroimaging) facilities: _____

Membership of other societies: _____

Papers/poster presented to the Association: _____

Referees	1. Proposer	2. Seconder
Name:		
Address		

NOTE: Referees must be members of the Association

STANDING ORDER AUTHORITY

Please pay Lloyds TSB Bank, Camberwell Green (Sort Code 30-95-42) for the credit of the British Association for Cognitive Neuroscience (Account number 02349107) the sum of £_____ (_____ [in words]) commencing on 31.01.20__ and thereafter annually until you receive further notice from me in writing and debit my authority accordingly. This instruction cancels any previous order in favour of the beneficiary named above (or that to the British Psycho Physiological Society BPPS), under this reference.

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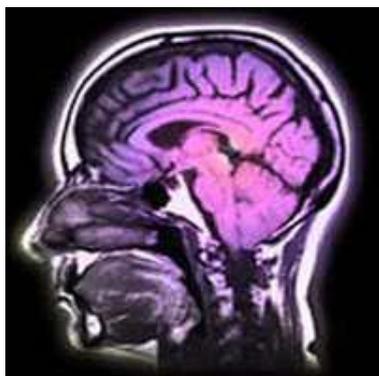
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Mental processes in the human brain

Organised and edited by Jon Driver, Patrick Haggard and Tim Shallice

Published May 2007

Special offer price: £47.50/US\$90 (usual price: £59.50/US\$110)



Scientific study of the human mind and brain has come of age, with the advent of methods for imaging brain activity in health and disease, plus computational theories of cognition. These can address new questions about the neurobiological basis of cognitive processes that are characteristically (and perhaps uniquely) human, including language; thought; understanding of others; conscious memory; and awareness itself.

This issue on mental processes in the human brain derives from a Discussion Meeting held at the Royal Society in October 2006.

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Shifting and stopping: fronto-striatal substrates, neurochemical modulation and clinical implications

TW Robbins

British Association for Cognitive Neuroscience
Joint Annual Meeting with the Welsh Institute for Cognitive Neuroscience (WICN) 1st-5th September 2008 Swansea University
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Please Complete this form in Block Capitals:

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Please tick your requirements below:

Conference attendance (including lunch and refreshments)

<i>From</i>	<i>To (inc. lunch)</i>	BACN Member		Non-member		Evening meal*	Conference Dinner@	Accommodation	Total
		Full	Student	Full	Student				
Mon 2.00pm to	Tuesday lunch	£35.00	£25.00	£40.00	£35.00	£18.00		£80.00	
Tues 2.00pm to	Wednesday lunch	£35.00	£25.00	£40.00	£35.00	£18.00		£80.00	
Wed 2.00pm to	Thursday lunch	£17.50	£12.50	£20.00	£17.50	£18.00	£35.00	£40.00	
Thurs 2.00pm to	Friday lunch	£17.50	£12.50	£20.00	£17.50	£9.00		£40.00	
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*Evening meal on Wednesday only needed if you do not attend the conference dinner @Conference Dinner (including Twmpath¹) at: The King Arthur Hotel, Reynoldston <http://www.kingarthurhotel.co.uk/contact/contact.htm>

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I would like a receipt for my registration payments Yes/No Please return this form with a cheque for the total amount made payable to **‘BACN Conference Account’** to: Professor Adrian Burgess, Department of Psychology, Swansea University, Singleton Park, Swansea, SA2 8PP

