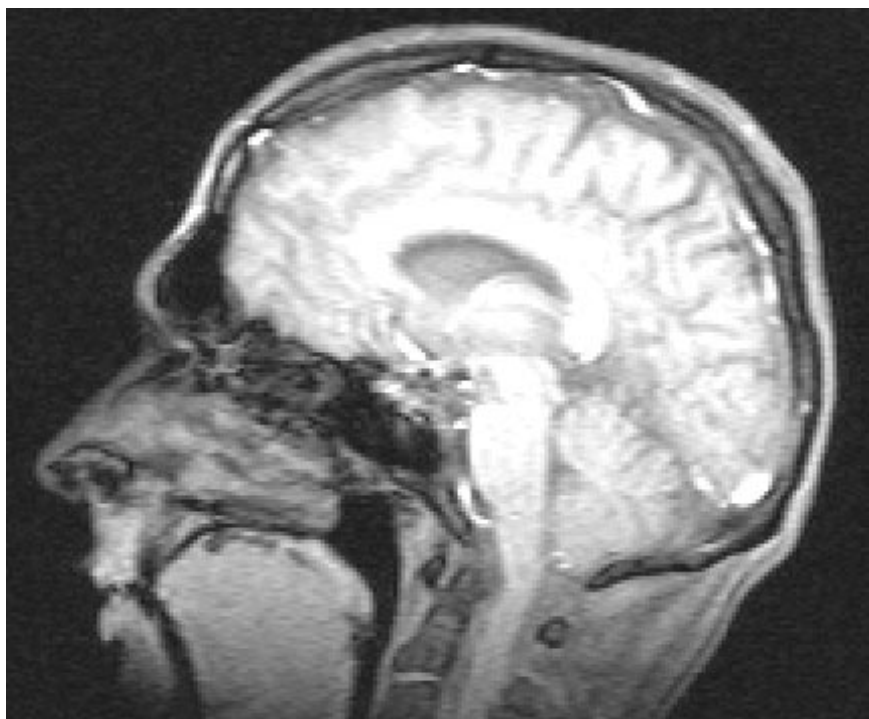


Bulletin of the Applied Vision Association



AVA Christmas Meeting report: Aston
Geoffrey J. Burton Award
Call for papers: AVA'98 Dundee
College of Optometrists Annual Meeting
References on Vision

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VISION

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*AIM OF THE AVA: TO PROMOTE AND ADVANCE THE APPLICATION
OF RESEARCH WORK IN ALL AREAS RELATED TO VISION*



Noticeboard



AVA on the Internet

The Applied Vision Association now has its own world wide web pages at:
<http://www.dmu.ac.uk/ava/>

The pages contain details of who is on the committee, contact emails, latest details on forthcoming AVA meetings and links to other vision related pages. There are also archives of abstracts from previous AVA meetings.

There is also an AVA anonymous ftp site at: *<ftp://hc.les.dmu.ac.uk>* containing a hyperspectral data set of natural scenes produced by Gavin Brelstaff (see <http://www.crs4.it/~gjb/ftpJOSA.html>). If there is anything else you think this archive should contain then let us know.

AVA and OPO Subscriptions

Membership for 1997/1998 will be the same price as last year (but is likely to increase in the following year. Those members who pay by standing order for the AVA and Ophthalmic and Physiological Optics please check that the correct amount is being paid to the AVA.

Editorial

The College of Optometrists has moved! All AVA correspondence should now be sent to 42 Craven Street, London. This issue of the Bulletin contains a report of the highly successful Christmas meeting at Aston University. Many thanks to Tim Meese for organising it. We announce that the AVA AGM will be held at a scientific meeting at the University of Abertay, Dundee in May. For more details contact Malcolm Cook. The Annual Meeting of the College of Optometrists will be held in York in March. ***Members of the AVA are automatically Associate Members of the College of Optometrists.*** If you have any comments on the Bulletin of the AVA then do contact me: mcase@dmu.ac.uk

Deadline for copy for the next Bulletin - 17th April 1998

Geoffrey J. Burton Memorial Fund

The fund was established in 1986 with the aim of providing financial assistance to students (in non-established or fixed term posts) based in the UK travelling to any conferences or meetings at which they will be presenting a paper or poster. Donations to the fund can be directed to the AVA secretariat and cheques etc. should be made payable to "The Geoffrey J. Burton Memorial Fund".

The maximum award to any one individual is £400.

The AVA Committee has decided that from now on there will be a single award made once a year. The closing date for awards will be on 28th February each year and will be for conferences held from 1st March to the following 28th February (ie there will not be retrospective awards). Applicants do not have to be presenting at an AVA conference.

The next closing date for applications is:

28th February 1999

for conferences held between 1st March 1999 and 28th February 2000.

To apply for an award you need to complete an application form which is available from:

The AVA Secretariat,
College of Optometrists,
42 Craven Street,
London,
WC2N 5NG.

The award for nominations closing on 28th February 1998 will be announced in the next issue of the Bulletin.

Applied Vision Association

AVA'98 Annual General Meeting

28-29 May 1998

Preliminary Announcement and call for papers

The AVA will be holding its annual general meeting and a scientific meeting at the University of Abertay, Dundee on 28th and 29th May 1998.

For more information please contact:

Dr M.J. Cook,
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***Applied Vision Association
The Second
Christmas Meeting.***

THE VISUAL BRAIN

Wednesday 17th December
Aston University

Meeting report

The second AVA Christmas Meeting was held in the Department of Vision Science at Aston University on Wednesday the 17th December, 1997. There were 54 delegates, many who travelled from within Britain and some who travelled from Australia, Canada, Italy, Japan, Spain and the United States.

Three keynote speakers, Oliver Braddick, John Daugman and David Foster, were invited to present work which then set the stage for each of three paper sessions entitled: 'Motion', 'Images and Visual Codes', and 'Spatial Features and Cortical Mechanisms'. In addition to the 3 invited talks, there were 12 contributed papers (4 per session) and 13 posters. Presentations drew strongly on psychophysical techniques and computational analysis, but also included studies using electrophysiological and neurophysiological recording techniques.

Oliver Braddick initiated the first session with a discussion of work on the development of directional motion asymmetries in infants, and its relationship to the presence and directional selectivity of OKN. The contributed papers which followed examined several aspects of the motion system including second-order input to optic flow, the effects of attention on motion sensitivity, modeling of motion as optic flow over boundaries in the image, and spatial segregation of motion aftereffects.

Following a Christmas lunch, John Daugman presented an account of how continuous information such as that contained in visual images can be quantised, and yet all critical attributes be retained. He summarised and clarified classical coding principles and applied them to the

contemporary problem of classifying personal identity using mathematically encoded iris patterns. This presentation was ably supported by the contributed papers which investigated aspects of image decoding, image analysis and facial recognition.

In the final paper session, David Foster presented an analysis of psychophysical results, which supported the existence of distinct groups of orientation-selective mechanisms for line-target detection, which operate from coarse to fine sampling in the orientation domain. This talk was followed by others addressing orientation, grouping and contour integration; and one directed at assessing Parvo/Magno involvement using VEPs in human and VEPs and neurophysiological recordings in macaque.

The posters were available to view throughout the day but became the principle focus during a most enjoyable and relaxed session following the talks over a glass of wine. Posters were no less stimulating than the talks, and carried on with the general theme of visual encoding (of orientation, position and motion) and facial recognition, as well as reporting on additional themes such as the effects of colour on transient system activity, chromatic blur discrimination and complex cell behaviour.

Christmas cheer was encouraged by good science, good wine and a relaxed, sociable atmosphere, all against a backdrop of lightly falling snow - apparently on order for the meeting, as by the next day the snow had mysteriously disappeared! One could indeed wonder whether the Christmas meeting should become a permanent event on our calendar?

** Many thanks to Tim Meese and Ursula Bingham for organising this very enjoyable and successful meeting.

Sarah Waugh
Aston University

The abstract of the meeting can be viewed on the internet at the following address:

<http://www.dmu.ac.uk/ava/ast97-ab.html>

AVA books for sale

The AVA still has a number of new books for sale from conferences that it has organised over the years.

Payment can be by cheque or postal order in UK pounds (sorry, no credit cards) to "Applied Vision Association". Send your payment with the order to:

AVA Secretariat,
Applied Vision Association,
College of Optometrists,
42 Craven Street,
London WC2N 5NG.

Books available:

The cost for each book is £15 (including postage in the UK) for AVA members or £20 for non-AVA members. If you are outside the UK then add £5 per book to each of the prices above.

Gale, A.S., Astley, S.M., Dance, D.R. and Cairns, A.Y. (1994) **Digital Mammography**. Elsevier (424 pages).

Gale, A.S., Brown, I.D., Haslegrave, C.M., Krusysse, H.W. and Taylor, S.P. (1993) **Vision in Vehicles IV**. North Holland (355 pages).

Brogan, D., Gale, A. and Carr, K. (1993) **Visual Search 2**. Taylor and Francis (477 pages).

The cost of the Dalton conference book is £43 (including postage in the UK) for AVA members or £48 for non-AVA members. If you are outside the UK then add £5 per book.

Dickinson, C., Murray, I. and Carden, D. (1996) **John Dalton's Colour Vision Legacy**. Taylor and Francis (784 pages).

Applied Vision Association Postgraduate Meeting.

4 March 1998

***College of Optometrists, 42 Craven Street,
London.***

Invited Lecturer:

John Harris

Department of Psychology, University of Reading

“What Does Dopamine Do in Human Vision?”

This is the seventh in the series of biennial AVA postgraduate open contributions meetings. These are relatively informal meetings and are intended to allow young vision scientists to present their research results to a professional but friendly audience.

The cost of registration will be 15 pounds for AVA members, 18 pounds for non-members and 10 pounds for students. Cheques should be made payable to “Applied Vision Association”. The registration fee will cover refreshments and a buffet lunch.

For further details please contact :

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e-mail: I_Moorhead@dera.gov.uk

The College of Optometrists Conference 1998

**York UK
13-15 March 1998**

Subjects include:

- Drugs and the Eye
- Eyes at Work
- New Perspectives in Glaucoma
- The Young Eye
- Decision Making in Diabetes
- The Corneal Window
- The Ageing Eye
- Where Next? New Technology

plus

Workshop and Seminar Programme

For more information contact:

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College of Optometrists,
42 Craven Street,
London WC2N 5NG.

Tel: 0171 839 6000

Fax: 0171 839 6800

Email: veld@coptom.demon.co.uk



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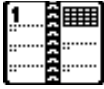
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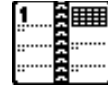
Zenger, B and Fahle, M (1997) Missed targets are more frequent than false alarms: a model for error rates in visual search. *Journal of Experimental Psychology-Human Perception and Performance* 23, 1783-1791.

References supplied (as usual!) by:

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Meetings Calendar



1998

- March 4 AVA Postgraduate meeting
College of Optometrists, London
Contact: Ian Moorhead
I_Moorhead@dera.gov.uk
- March 13-15 College of Optometrists Conference 1998
York. Contact: 0171 839 6000
- May 8-9 Vision Research Conference, Ft Lauderdale
Retinal Development, Degeneration and
Functional Restitution
<http://www.elsevier.nl/locate/vision98/>
- May 10-15 ARVO, Ft Lauderdale, USA
<http://www.faseb.org/arvo/>
- May 28-29 AVA'98, University of Abertay, Dundee
Contact: Malcolm Cook m.cook@river.tay.ac.uk
- August 24-28 ECVP98, Oxford
Abstract deadline: 14 March 1998
Contact: Brian Rogers bjr@psy.ox.ac.uk
<http://www.psych.ox.ac.uk/ecvp98.htm>
- October 23-26 Silmo 1998
<http://www.silmo.fr>

1999

- August 10-14 23rd Pupil Colloquium, Nottingham
<http://www.mailbase.ac.uk/lists/pupil/files/>
- May 9-14 ARVO, Ft Lauderdale, USA
<http://www.faseb.org/arvo/>