

# DALTONIANA

## NEWSLETTER OF THE INTERNATIONAL RESEARCH GROUP ON COLOUR VISION DEFICIENCIES

*President: Prof A ROTH (Switzerland)*

*General Secretary, Treasurer & Newsletter Editor*  
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### IRGCVD NEWS

#### **Colour Vision Deficiencies XIII, PAU**

The organisation of the Pau Symposium is now well advanced and this issue includes the preliminary programme of papers, posters and social events. The papers programme is now full and any further submissions received will be considered for the posters session. Late submissions can be made up to 25 May and approved abstracts will be attached to the bound abstract book as loose-leaf additions.

Registration forms for accommodation and submissions are included with this issue together with a membership subscription form.

#### **Committee Nominations**

The term of office for all elected Directorial Committee members except for the President and General Secretary will end in July 1995. The retiring members are Adams, Birch, Dain, Drum, Kitahara, Marré, Mollon, Pokorny, Sperling and Zrenner.

Nominations must be received in time for the Members Business Meeting at the Pau Symposium on 30 July. After obtaining the nominees consent, kindly send your nomination to Professor J D Moreland.

#### **Proceedings Editor**

Dr Bruce Drum has now relinquished the office of Proceedings Editor and Professor Dick Cavonius has agreed to take on this burden.

The Group owes Bruce an enormous debt of gratitude. When Guy Verriest's illness prevented him from carrying on alone, he asked Bruce to help him edit the Proceedings of the Annapolis Symposium, 1987. Following Guy's death, Bruce took over and has worked steadily and determinedly to raise the standard of our published proceedings by introducing the current system of peer review. He has edited the Proceedings of the Cagliari 1989 and Sydney 1991 Symposia and, despite mounting personal difficulties, the Tübingen 1993 Symposium as well. Bruce's current professional commitments prevent him from continuing as Proceedings Editor and I am glad to use these columns to record, on behalf of the IRGCVD, our thanks to him for his splendid work.

#### **Treasurer**

It is a great pleasure (and no small relief) to announce that Dr Ted Sharpe has agreed to take over the office of Treasurer of the Group. Ted moved recently from Freiburg to Tübingen and we hope to be able to announce the date of the formal change over in the near future.

# Preliminary Programme

## THURSDAY 27 JULY A.M.

- 8:30-9:30 IRGCVD DIRECTORS MEETING
- 9:15-10:45 Registration
- 10:20 Coffee
- 10:45 Opening Remarks (President: Professor A Roth, General Secretary: Professor J D Moreland, Organizer: Dr J Leid)
- 11:10 VERRIEST MEDAL SESSION: Moderator: A Roth  
*Verriest Lecture: How Much Light Reaches the Retina? J POKORNY, V SMITH (Invited)*

## THURSDAY 27 JULY P.M.

- 12:00-14:00 Lunch

### SESSION 1 - Moderator: S Buck

#### Special Topic: Colour Vision and Field Defects.

- 14:00 H KRASTEL. Colour Vision and Field Defects. (Invited)
- 14:40 OGILVIE, RUDDOCK, WRIGHT. Colour Vision Without Pattern Discrimination in a Human Hemianope.
- 14:55 WILLIAMS, BARBUR, HARLOW, FORSYTH. Light Scattered in the Eye and its Effect on the Measurement of the Colour Constancy Index.
- 15:10 BARBUR, WILLIAMS, PLANT. Studies of Instantaneous Colour Constancy in subjects with Cerebral Achromatopsia.
- 15:25 Break

### SESSION 2 - Moderator: J Birch

- 15:45 KUDO, TOYOGUCHI, KURUSU, ROKUGO, OHTA, USUI. Colour Vision on Macular Hole Patients.
- 16:00 MALBREL. Evolution of the Colored Senses of the Glaucomatous Patient Following the Gravity of the State.
- 16:10 VOLA, DEVIN, OUDAHIS, CONRATH, MSELATI, BERRUS. Peripheral Colour Vision In the Course of Retinal Detachments.

### SESSION 3 - Moderator: C R Cavonius

- 16:20 MORLAND, RUDDOCK. The Identification and Categorization of Colours by Human Observers with Colour Vision Deficiencies.
- 16:35 BRISTOW, MORLAND, RUDDOCK. Limits of Colour Constancy in Humans with Normal Colour Vision.
- 16:50 MOLLON, JORDAN, REGAN, SARKIES. A Case of Tritanopia of Sudden Onset.
- 17:05 VINGRYS, METHA. Psychometric Functions in the Central Visual Field.
- 17:20 PEASE, VAJOCZKI. Cone Monochromacy: A Case Report.
- 18:00 *Reception by the Mayor of Pau: City Hall, Salle du Conseil*
- 19:00 *Open Grand Chistera ville de Pau, Stadium de la Gare*

## FRIDAY 28 JULY A.M.

### SESSION 4 - Moderator: V Smith

#### Special Topic: Variation of Colour Vision: Genotypes and Phenotypes.

- 8:30 DEEB. Levels of Expression of the Red and Green Pigment Genes in the Human Retina. (Invited)
- 9:05 MOLLON. Polymorphisms and Photopigments: A Primer. (Invited)
- 9:40 *Break*
- 10:00 NIETZ. Variety of Photopigment Genes Underlying Red-Green Color Vision. (Invited)
- 10:35 SHEVELL. Phenotypes of Normal and Anomalous Trichromacy. (Invited)
- 11:10-11:45 Round Table Discussion

## FRIDAY 28 JULY P.M.

- 12:15 *Group Photograph*
- 12:30-14:00 *Lunch*

### SESSION 5 - Moderator: S Shevell

- 14:00 HAGERSTRÖM, NEITZ, NEITZ. Ratio of L/M Pigment Gene Expression Increases with Retinal Eccentricity.
- 14:20 JORDAN, MOLLON. Unique Hues in Heterozygotes for Protan and Deutan Deficiencies.
- 14:40 SWANSON, FIELDMAN. Sensitivity and Spectral Tuning of the Red-Green Chromatic Pathway in Heterozygous Carriers of Congenital Color Vision Defects.
- 14:55 NEITZ, NEITZ. Fusion Genes in Normal and Anomalous Color Vision.
- 15:10 KREMERS, WEISS, MAURER, ZRENNER. Responsivity of LGN-Cells in Marmosets with Molecular-Genetically Determined Cone Pigment Deficiencies.
- 15:25 TANABE, HUKAMI. Results of Clinical Color Vision Tests of "Pigmentfarbenanomalie".
- 15:40 *Break*

### SESSION 6 - Moderator: G Jordan

- 16:00 PARAMEY, CAVONIUS. Color Spaces of Normal and Anomalous Trichromats Reconstructed from Reaction Time and Rating Measures.
- 16:15 REGAN, MOLLON. The Relative Saliency of the Cardinal Axes of Colour Space in Normal and Anomalous Trichromats.
- 16:30 KNOBLAUCH, BIEBER, WERNER. Detecting Color Deficiency in 4- and 8-Week Old Human Infants Using the VEP.
- 16:45 SCHEIBNER, ORAZEM. Features of Foveal Dichromacy Illustrated by Deuteranopia.
- 18:00 *Visit to Chateau de Pau*
- 20:00 *Reception at the Parlement de Navarre*

## **SATURDAY 29 JULY A.M.**

**Special Topic: Structure and Function in Colour Vision - Moderator: J Pokorny**

8:30 LEE. Structure and Function in Primate Retina (Invited)

### **SESSION 7 - Moderator: J Mollon**

9:10 AHNELT, RÖHLICH, HOKOG. Four Cone Subtypes in a Primitive Mammal - The South American Opossum - Immunocytochemical Characterization.

9:25 KULIKOWSKI, MCKEEFRY, ROBSON. Selective Stimulation of Colour Vision Primates.

9:45 SPERLING. Color Processing is Complete in the Retina.

10:00 BUCK. Influence of Rod Signals on the Perceptual Opponent Color Channels.

10:15 FRUMKES, EYSTEINSSON, LEMBESSIS, VOLLARO. The Influence of Monocular and Interocular Adaptation upon Color Vision.

10:30 *Break*

10:30-12:00 **POSTER SESSION - Moderator: J D Moreland**

## **SATURDAY 29 JULY P.M.**

12:00-14:00 *Lunch*

14:00 *Exploring Béarn*

## **SUNDAY 30 JULY A.M.**

### **SESSION 8 - Moderator: F Viénot**

8:30 WALRAVEN, ALFERDINCK. A Colour Deficiency Simulator for the Display Designer.

8:45 SPALDING. The Effect of Inherited Defective Colour Vision on the Clinical Skills of Doctors.

9:00 COLE, MADDOCKS. Defective Color Vision is a Risk Factor In Driving.

### **SESSION 9 - Moderator: E Zrenner**

9:15 MORELAND, ALEXANDER. Effect of Macular Pigment on Colour Matching with Field Sizes in the range 1-10.

9:30 SOMMERHALDER, PELIZZONE, MORELAND, ROTH. Influence of Stimulus Luminance on Automated Moreland Matches.

9:45 ICHIKAWA, TANABE, HUKAMI, YAMADE, KONO, TAGAI. Automated Examination Method of Anomaloscope.

9:55 IONICA. Ionica's Color Vision Test.

10:05 BIRCH. The Clinical Use of Saturated and Desaturated Munsell Panel Tests.

10:15 KITAHARA. The Simulation of the Hue Changes after Intraocular Lens Implantation.

10:25 *Break*

### **SESSION 10 - Moderator: K Knoblauch**

10:45 WATANABE, SMITH, POKORNY. Psychometric Function for Chromatic Discrimination.

11:00 GAUDART, CRÉBASSA, PÉTRAKIAN. Colour-Opponent Wavelets and Chromatic Receptive Fields.

11:15 *Business Meeting*

## SUNDAY 30 JULY P.M.

12:00-14:00 *Lunch*

### SESSION 11 - Moderator: W Swanson

- 14:00 KURTENBACH, SCHIEFER, ZRENNER, NEU. The Colour Vision Meter and Young Diabetics.
- 14:15 CHADUTEAU, MENU, CORBE, COSCAS. New Colour Test of Lanthony in Low Vision Patients.
- 14:30 MÄNTYJÄRVI, TUPPURAINEN. Color Vision In a Family with Butterfly-Shaped Pigment Dystrophy of the Fovea.
- 14:45 FOSSARELLO, ZUCCA, PIRASTU, BERTINI, GALANTUOMO, SERRA. Colour Vision Deficiencies In 2 Sardinian Families with Butterfly-Shaped Macular Dystrophy
- 15:00 *Break*

### SESSION 12 - Moderator: H Krastel

- 15:15 BIRCH. Acquired Tritanopia in Diabetic Maculopathy.
- 15:30 PINCKERS, TILANUS. Color Vision In Macular Gliosis, Cysts, Holes and Edema. An Approach to Depth-Localization.
- 15:45 PAULUS, SCHWARZ, STEINHOFF. Influence of Anticonvulsive Drugs on Colour Perception.
- 16:00 END OF MEETING
- 17:30 *Escaladieu Abbey*

### POSTERS

- AKITA, MIYAHARA. EEG Color Topographic Analysis for Colored Lights with the Maximum Entropy Method.
- BARBUR, COLE, PLANT. Testing Chromatic Discrimination with both Congenital and Acquired Colour Vision Deficiencies.
- BERENDSCHOT, VAN NORREN, VAN DE KRAATS. Foveal Cone Packing and Visual Pigment Density in Dichromats.
- BUCK, SANOCKI, KNIGHT. Do Rod Signals Add with S-Cone Signals in Increment Detection?
- ERB, ADLER, STÜBIGER, WOHLRAB, THIEL. Evaluation of the Desaturated Roth 28 Hue-Colour Test.
- GONELLA, MATTIELLO, TONTI. Clinical Experience with AVICO Color Vision Analyzer.
- GUNJI, YAMAMOTO, OYAMA, KUBO, KITAHARA. Spectral Sensitivity Characteristics for Two Polymorphic Variants of Normal Red Pigment.
- IBATULIN. Color Vision and Amblyopia.
- JORDAN, MOLLON. The OSCAR Test as a Means of Identifying Carriers of Red-Green Colour Defects.
- KEUNEN, DELINT, VAN SCHOONEVELD, WENT. Tritanopia as a Sign of Dominant Cone Dystrophy.
- KRASTEL, ST LEERS. Chromatic Acuity and PIC-Plate Tachystoscopy as Improved Tools in the Evaluation of Acquired Colour Vision Defects.
- LANTHONY, GOBERVILLE. Influence of Lightness (Munsell-Value) on Desaturated Panel D-15.
- LEID, PLANTEY, LEID. A Protocol for Monitoring Treatment by Synthetic Anti-Malarial Drugs, using a Colour Vision Test Combination with a Novel Para-Macular Perimetric Test.
- LEID, SOULEYMANOU, POLETTI. Evaluation of Yu's Chinese Pseudo-Isochromatic Plates for Acquired Dyschromatopsia.
- LE ROHELLEC, VIÉNOT. Distant Colour Induction on Fechner-Benham Top.

MAGUIRE. Voltage and Ligand-Gated Currents of Amacrine and Bipolar Cells in the Primate Retinal Slice.

MATTIELLO, BIONDINI, SALINAS. Yellow-Blue Opponent Color Responses as a Function of Retinal Eccentricity.

MATTIELLO, BIONDINI, SALINAS. Metameric Achromatic Color: Evoked Potential and Psychophysical Measurements.

MORELAND, ALEXANDER. Temperature and Rayleigh Matching on Moreland's Anomaloscope.

MORELAND, BRADSHAW. "Nagel" dichromats who Reject  $R \equiv G$ .

NESTERUK. Color Campimetry in the Diagnosis of Eye Diseases.

NIMSGERN, LANG, KRASTEL. Lang's PC-Colour Test: Clinical Application in Congenital and Acquired Colour Vision Defects.

PEFFERKORN, CHIRON, VIÉNOT. Setting an Heterochromatic Spatial Photometry Technique.

REITSAMER, PFLUG, RÖHLICH, AHNELT. Topographic Differences of Spectral Sensitivity in Rabbit Retina. Small Field ERG Recordings and Immunohistochemistry.

RONCHI, CETICA. Color Reproduction Biasing the Inferences on Painter's Defective Color Vision.

ROUGIER, RISS, LE REBELLER. Short-Wavelength Color Perimetry: an Interesting Macular Investigation?

ROY, GOURAS, MACKAY. Detecting Blue Cone Monochromats by Electroretinography.

RÜTTIGER, KURTENBACH, ZRENNER. Colour Discrimination In a Monoptic and Dichoptic Task.

SHAMSHINOVA. Topographic VEP and Color Vision.

SPERLING. Comparison of Increment and Decrement Spectral Sensitivity.

TAUSCH. About the Influence of Specular Highlight to Lightness and Colour Constancy.

VIÉNOT, OTT, M'BAREK. Screening Colour Vision with an LMS Calibrated Display.

VINGRYS, MAHON. Staircase Stepsize for Colour Luminance Testing.

VITAL-DURAND, KNOBLAUCH, BARBUR. Age-Matched Comparisons of Chromatic Thresholds for Normal and Strabismic Observers.

**REGISTRATION FORM No. 1: SYMPOSIUM & ACCOMMODATION  
BULLETIN D'INSCRIPTION No. 1: SYMPOSIUM & ENREGISTREMENT**

To be returned to / A retourner a:  
OFFICE MUNICIPAL DU TOURISME, Service Congres  
IRGCVD PAU 95, Place Royale, 64000 PAU, FRANCE

Before 25 May 1995 with payment, Avant le 25 Mai 1995 accompagne de votre reglement

Please write in block letters/En caracteres d'imprimerie SVP

**ACTIVE PARTICIPANT / CONGRESSISTE**

NAME/NOM Prof/Dr/Mr/Ms..... FIRST NAME/PRENOM .....

MAILING ADDRESS/ADRESSE POSTALE.....

CITY/VILLEPOSTAL CODE.....

COUNTRY/PAYS.....PHONE/TELFAX.....

**ACCOMPANYING PERSONS/ACCOMPAGNANTS**

NAME/NOM..... FIRST NAME/PRENOM .....

NAME/NOM..... FIRST NAME/PRENOM .....

**HOTEL ACCOMMODATION / RESERVATION HOTELIERE**

RESERVATION DATESFROM/DU ..... EVENING/SOIR TO/AU ..... MORNING/MATIN  
= ..... NIGHTS/NUITS

Price (in French Francs) includes the room and breakfast. Les prix comprennent la chambre et le(s) petits dejeuner. Deposit /arrhes = 1 night + breakfast / 1 nuit + petit dejeuner

CATEGORY	SINGLE/No. 1 LIT	DOUBLE/No. 1 Gd LIT	TWIN/No. 2 LITS	DEPOSIT/No. ARRHES	TOTAL
***	350 .....	400 .....	400 .....	350x..... 400x.....	
**	300 .....	350 .....	350 .....	300x..... 350x.....	
*	150 .....	220 .....	220 .....	150x..... 220x.....	
					SUB-TOTAL .....

Deposits are necessary for room reservation and will be deducted from the hotel bill. Il est indispensable de verser les arrhes pour la reservation hoteliere. Elles seront deduites de la note d'hotel.

Registration fees include: congress kit, admission to scientific sessions, coffee breaks, 4 lunches, 4 dinners, all social events, excursion of Saturday 29, gala dinner.

Full participant	2200 FF x .....	= .....
Accompanying person	980 FF x .....	= .....
+ Thursday 27 "PAU, English Town"	100 FF x .....	= .....
+ Friday 28 "JOURNEE PYRENEENNE"	450 FF x .....	= .....

(Note: includes lunch and tickets for visits, teleferic and Artouste train).

The fees for these two trips will be refunded if there are too few participants.

SUB-TOTAL .....

GRAND-TOTAL .....

## METHODS OF PAYMENT / MODALITES DE PAIEMENT

### 1. Bank transfer in FF (french francs)

Make the transfer through your bank to "IRGCVD PAU 95", BANQUE COURTOIS, 44, Rue Louis Barthou, 64000 PAU, Account number 10268/02595/3903200200/28, and enclose a copy of the bank transfer with your completed registration and hotel reservation (form No. 1).  
The secretariat will send you a confirmation.

Total amount = Registration Fees + Hotel Reservation + 150 FF (local Pau bank charge)

### 2. Eurocheque (in french francs only)

Please make your cheque out to "IRGCVD PAU 95".

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POUR LA FRANCE exclusivement, paiement possible par cheque bancaire a l'ordre de "IRGCVD PAU 95", incluant les droits d'inscription + la reservation hoteliere, sans frais.

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Only VISA, MASTERCARD or EUROCARD are acceptable. In this instance the local Pau bank charges are 20 FF for an active participant and 10 FF for each accompanying person.

Total amount = Registrations Fees + Hotel Reservation + (20 FF x ..... ) + (10 FF x ..... )

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Vouchers are available that will allow you to obtain a discount of about 40% for travel within France, if you fly AIR INTER. To obtain these, please indicate the number of vouchers wanted below.

IMPORTANT: The validity of the vouchers (verified on your return flight) requires that your ticket be endorsed by the secretariat during the symposium.

AIR INTER (plane, french lines only) No. of vouchers .....

### CANCELLATIONS / DESISTEMENTS

Written notification must be received by the secretariat no later than 25 May 1995. Refunds will be made as follows:

Before 25 May 1995: less 20% for administration charge.

After 25 May 1995: no refunds.

All enquiries about the scientific programme should be addressed to Prof. MORELAND. Enquiries about other matters should be addressed to Dr. LEID.

The final programme will be sent to each participant.

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REGISTRATION FORM No. 2: CALL FOR CONTRIBUTIONS  
BULLETIN D'INSCRIPTION No. 2: APPEL A COMMUNICATION

- I would like to attend the symposium. Je souhaite participer au symposium  
 I would like to submit a contribution/s. Je souhaite soumettre une communication.

Return this form to Prof. MORELAND before 25 May 1995 and a copy to Dr. LEID.  
J'adresse ce bulletin d'inscription au Pr. MORELAND avant le 25 Mai 1995 et une copie au Dr. Jean LEID.

TOPICS OF THE SYMPOSIUM

1. Variation of Colour Vision: Genotypes and Phenotypes. Invited speakers: Samir DEEB, John MOLLON, Maureen NEITZ, Steven SHEVELL. Moderator, round table discussion: Vivianne SMITH.
2. Structure and Function in Colour Vision: Invited speaker: Barry LEE.
3. Colour Vision and Field Defects: Invited speaker: Hermann KRASTEL.
4. Free papers will be accepted (methods of examination of central and peripheral colour vision, congenital and acquired defects, practical aspects, etc ...)

The principal/presenting author must be a member of the IRGCVD and is asked

- to request only **poster** contributions (**the paper programme is now full**). Poster presentations are, in principle, unlimited. Posters, which have the same status as papers, have been allocated session time in the programme.
- to send for each contribution, **before 25 May 1995**, an abstract (maximum 200 words: 2 copies to Professor MORELAND and 2 to Dr. LEID. The document should be written with a good quality printer or type writer, inside a square frame of 18 cm (7") x 18 cm (7"), must include title (in capital letters, bold type), authors (presenting author underlined), institution, city, country, followed by the abstract. All abstracts, will be reviewed and those accepted will be enclosed with the Symposium Abstract booklet. Abstracts will be reproduced photographically exactly as received and reduced x 1/2. Late or wrongly formatted abstracts may not be included in the programme.
- to submit before the end of the symposium the manuscript/s (in good english) for publication in the proceedings.

THIS PAGE MAY BE PHOTOCOPIED FOR MULTIPLE CONTRIBUTIONS

AUTHOR/S.....

POSTER THEME: SPECIAL TOPIC 1 2 3 or FREE (Please mark)

TITLE.....

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NEW MEMBERS AND MEMBERSHIP RENEWALS: Please use the form on the next page.

# INTERNATIONAL RESEARCH GROUP ON COLOUR VISION DEFICIENCIES

## Membership Subscription: 1994/95

The full subscription is UK£40 (full members; payment of the 1994 and 1995 subscriptions will guarantee automatic entitlement to the 1995 Pau Symposium Proceedings. New members joining in 1995 should pay £80 to receive the Proceedings volume) or UK£10 (student and retired members). All members receive the IRGCVD newsletter *Daltoniana*.

Subscriptions payable to the "IRGCVD", in UK POUNDS only, may be made by any of three methods.

- 1) Credit Card (ACCESS, AMERICAN EXPRESS, EUROCARD, MASTERCARD and VISA).
- 2) UK bank cheque or Eurocheque.
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### PLEASE RETURN THIS FORM TO:

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THIS FORM MAY BE PHOTOCOPIED FOR INTERESTED COLLEAGUES