DALTONIANA

number 87 - October, 1996

The bulletin of the International Research Group for Colour Vision Deficiencies

Edited by Harry G. Sperling
Boston University Medical School, Department of Ophthalmology
30 East Concord Street, Boston, MA 02118-2394
e-mail: **sperling@acs-mail.bu.edu**
(NOTE CHANGE OF E-MAIL ADDRESS)

Next Symposium

The next Symposium of the group will be back in Ghent to mark (the passing of) our 25th Anniversary; our foundation meeting was held there in 1971. The dates are 5-9 July 1997. Prof. De Laey will be the local organiser and Prof. Moreland will deal with the scientific program.

Special topics for the Symposium are:

1) Development of Colour Vision (including infant/child vision)
2) Functional MRI
3) Gnosial Aspects
4) Traffic Regulation Standards

It is hoped to organise a workshop on Colour Coding in the Primate Retina.

The Executive Secretary cannot, as yet, confirm any names for invited speakers.

Arrangements have been made to publish the Proceedings in a special issue of Vision Research for which the Editors will be Dick Cavonius, John Mollon

and Eberhart Zrenner. Prospective authors should note that this will involve a considerable tightening of time-limits for the submission of manuscripts. A formal letter to the membership on editorial requirements for the issue is expected from the editors.

Next Verriest Lecture and Medal Award

Joel Pokorny has agreed to chair the Verriest Medal Committee. Although we do not yet have his statement of the exact criteria upon which the Committee will base it's choice, if you wish to make a nomination to him, together with a supporting statement, please feel free to do so.

IRGCVD on WWW

Steve Dain has started work on setting up an IRGCVD home page on WWW and is waiting for contributions.

JERMOV Affiliation

Andre Roth will be approaching JERMOV (the European version of ARVO) about affiliation at its October meeting in Montpelier.

Elections for President and General Secretary

At the General Meeting of Members (during the Symposium), nominations for President and General Secretary will be needed. Andre Roth has agreed to stand again (for a 2 year period, until his retirement). Jack Moreland has said, however, "I am definitely stepping down". Please send nominations for president and general secretary and accompanying CVs to Jack Moreland in time for them to be presented to the membership at the Ghent meeting.

Changing IRGCVD to The International Colour Vision Society

A formal proposal to adopt the name "International Colour Vision Society" will be put to the vote at the Ghent meeting. Jack Moreland asks, " how about a competition for an ICVS logo (especially one that would work on e-mail)?"

News from the Treasury

There was an error in the treasury news in the last issue. Entitlement to the Proceedings volume of the 1997 Symposium is obtained by payment of membership dues for 1996 and 1997 or, if having joined in 1997, by a special volume supplement. The 40 or so IRGCVD members who are subscribers to Vision Research will be entitled to a refund of part of their dues, the amount as yet to be determined by the treasurer.

The treasury has provided a list of members together with their e-mail addresses where available. These are published as an appendix to this issue (please send a correction to "ted.sharpe@uni-tuebingen.de" if the e-mail address is missing, wrong or out-of-date). Note that the Yes's and No's refer to whether the member's dues are paid for 1996.

Jennifer Birch to represent IRGCVD

The IRGCVD will be collaborating with our "sister" the AIC in setting up a sub-group on Colour Education in Ophthalmology. Jennifer Birch has agreed to represent the IRGCVD.

Dalton's Legacy

"**John Dalton's Colour Vision Legacy**" is the title of a new book to be published by Taylor and Francis in December on color vision. It is the selected and edited proceedings of the international conference held in Manchester to honor Dalton's 200th anniversary. It is edited by Christine Dickenson, Ian Murray, and David Carden of the University of Manchester Institute of Technology. Because of the broad interest that this volume holds for our membership, an outline of the volume is reproduced here.

Section 1: DALTON'S COLOUR VISION
(a)Dalton - Letter
(b)Extraordinary Facts Relating to the Vision of Colours: With Observations
(c)Dalton's Colour Blindness: An Essay on Molecular Biography

Section 2: PIGMENTS AND GENETICS
(a)Primate Visual Pigments: Their Spectral Distribution and Evolution

(b)Evaluation of the Genetic Contribution to Individual Variations in the Spectral Sensitivity of Deuteranopes
(c)Induced Colour Blindness in Goldfish

Section 3: PATHWAYS AND CHANNELS
(a)Parallel Pathways in Primate Retina
(b)Chromatic Adaptation Aftereffects on Luminance and Chromatic Channels
(c)Selectivity Limits of Spectral Sensitivity Functions for Chromatic and Achromatic Mechanisms
(d)Spectral Sensitivity in Glaucoma and Ocular Hypertension
(e)Human Colour Imaging Evoked Potentials in the Inferior Parietal Lobule
(f)(IPL) and Colour Sensitive Cells in Area 7 of he Monkey Implicating the IPL
System in Higher Order Colour Processing Chromatic Visual Evoked Potentials: Special (g)Requirements for Blue
(h)Latency of Transient Chromatic Response Revealed with Temporal Isoluminant
Double-Pulse Method

Section 4: SPATIAL AND TEMPORAL ASPECTS OF COLOUR VISION
(a)Spatial and Temporal Properties of Chromatic Processing: Separation of
(b)Colour from Chromatic Pattern Mechanisms
(c)Spatial and Temporal Contrast Sensitivity During Saccades: Evidence for Suppression of the Magnocellular Visual Pathway
(d)Effects of Colour Difference on Perceptual Fading
(e)Spatial and Temporal Sensitivities of Colour Discrimination Mechanisms
(f)Temporal Characteristics of Colour Discrimination
(g)Opponent Mechanisms Revealed by Chromatic Modulation Threshold
(h)The Contribution of Colour to Contour Detection
(i)Chromatic Contribution to Shape Perception is Revealed in a Non-Temporal
Detection Task Using Distance
(j)Reading Performance of Low Vision Observers for Equal Luminance Coloured Text

Section 5: DEVELOPMENT AND COLOUR VISION DEFECTS
(a)The Development of Colour Vision in Infants
(b)Do Congenital Colour Vision Defects Represent a Selective Advantage?
(c)Some (But Only a Few) Colour Vision Defectives Have No Difficulty with Colour
(d)Visualisation of Congenital Colour Vision Deficiencies with a VDU

(e)Acquired Deficiencies of Colour Vision
(f)Colour Discrimination Without Pattern Discrimination in a Human Hemianope
(g)Rates of Age-Related Declines of Chromatic Discriminations are the Same for
Equiliminant Stimuli Lying on Tritan and Constant S-Cone Axes

Section 6: TECHNIQUES IN COLOUR VISION TESTING
(a)Developments in Anomaloscopy
(b)A New Panel Test for Tritan Colour Deficiency
(c)New Method for Investigation of Colour Sensitivity
(d)Electrophysiological Correlates of Colour Vision Defects
(e)An Analysis of VEPs Using Nonlinear Identification Analysis Method
(f)Chromatic Thresholds in Visual Disorders
(g)Electrophysiological Investigation of Adult and Infant Colour Vision Deficiencies
(h)Clinical Applications of an Automated Test of Chromatic Discrimination
(i)First Experiences with the Trafford Anomaloscope

Section 7: COLOUR CATEGORIES
(a)On the Nature of Unique Hues
(b)On the Existence of a Fixed Number of Unique Opponent Hues
(c)The Influence of White Light on the Location of Unique Green
(d)Categorical Characteristics of Multiple-Colour Memory
(e)Estimation of Object's Hue Using Maximum-Likelihood Principle
(f)Are Colour Categorical Borders Stable Under Various Illuminants?
(g)The Paucity of Evidence for Cardinal Mechanisms
(h)Colour Appearance and the CIE system

Section 8: COLOUR CONSTANCY
(a)Colour Constancy from Colour Relations in the Normal and Colour-Deficient
Observer
(b)Colour Constancy in Acquired and Congenital Colour Vision Deficiencies
(c)Adaptation or Contrast: The Controlling Mechanism for Colour Constancy
(d)A Neurocomputational Model for Colour Constancy
(e)A Functional View of Cone Pigments and Colour Vision
(f)Dependence of Colour Constancy on the Time-Course of Illuminant Changes
(g)Space-average Scene Colour Used to Extract Illuminant Information

(h)Colour Constancy, Excitation Purity and a Test of the Coefficient Theory
(i)Average Colour Constancy and Categorical Hues
(j)Surface Colour and Colour Constancy
(k)Age-related Changes in Saturation of Non-spectral Lights

Section 9: MODELS OF COLOUR VISION
(a)Predicting Colour Appearance of Simple and Complex Stimuli
(b)Coefficient Channels for Colour Constancy
(c)Colour Sensations in Honeybees?
(d)A Model of Spatial and Chromatic Processing in Early Vision
(e)Invariant Relationship between Achromatic Colour, Apparent Illumination,
and Shape of Surface: Implications for the Colour Constancy Theories
(f)A Model of Cone Interaction for Coding Chromatic Information
(g)Linear Models of Dichromacy
(h)The Two Axes of the Human Eye and Inversion of the Retinal Layers: The Basis for the Interpretation of the Retina as a Phase Grating Optical, Cellular 3D Chip
(i)Brightness, Hue and Saturation in Photopic Vision: A Diffraction-optical Result of Luminance and Wavelength in the Cellular Phase Grating 3D Chip of
the Inverted Human Retina
(j)3D Grating Model of Colour Perception
(k)A Zone Model for Colour Vision Based on Discriminability Optimisation

Section 10: COLOUR APPLICATIONS
(a)Hyperchromatic Lenses as Potential Aids for the Presbyope
(b)Revision of the CIE Recommendations for the Colours of Signal Lights
(c)A Methodology for Producing Maximally Discriminable, Nameable Colours in
(d)Control Room Displays
(e)Qualitative Assessment of Compatibility of a Mixture of Disperse Dyes Using
Colour Coordinates
(f)Real-time Colour Recognition for Machine Vision Systems
(g)A System for Precision Ophthalmic Tinting and its Role in the Treatment of
Visual Stress
(h)Optometric Characteristics of Children with Reading Difficulties Who Report
a Benefit from Coloured Filters
(i)The Magnocellular Defect of Dyslexics

(j)Visual Defense or Facilitation Processes Favoured by Alarming or Playful Colours

December 1996 784pp Hardback 59.50UK pounds

Literature
(the following abstracts were provided by the authors)

A Chromatic-cancellation Property of Human Pupillary Response
Eiji Kimura and Rockefeller R.S. Young
Vision Res.,**36**, 1543-1550, 1996

The pupil exhibits a response property somewhat analagous to perceptual red-green cancellation. Across a limited range of flash intensities near threshold, pupillary constrictions evoked by red flashes can be reduced, if not nulled, by the simultaneous addition of a green flash.The percentage of trials on which a stimulus-evoked response can be correctly discriminated from noise also falls to chance level as a green flash is added to the red flash. In terms of the quanta absorbed by L and M cones, the cancellation can be modeled as a function of (.65xL-M).

Predominant affection of the blue cone pathway in Parkinson's disease

B. Haug, R. Kolle, C Trenkwalder, W. Oertel and W. Paulus
Brain (1995), **118**, 771-778

Luminance contrast sensitivity and colour contrast thresholds were determined in 26 Parkinson patients and 17 normal controls of comparable age. Stimuli consisted of Gaussian enveloped luminance modulated or colour modulated (protan or tritan axis) vertical sine wave gratings with a spatial frequency of 1 cycle/deg. Consistent and significant differences between normals and patients were were found for tritan stimuli. Protan stimuli were much less apt to detect differences between the groups. We conclude that the retinal deficit of dopamine in Parkinson's disease is reflected in diminished center/surround inhibition and that these changes are primarily apparent when vision is tested along the tritan axis, because blue cones are sparsely distributed.

Adaptive Evolution of Color Vision Genes in Higher Primates

S-K Shyue, D. Hewett-Emmett, H. Sperling, D. Hunt, J. Bowmaker, J. Mollon and W-H Li
Science (1995),**269**, 1265-1267

The intron 4 sequences of the three polymorphic alleles at the x-linked color photopigment locus in the squirrel monkey and the marmoset reveal that the alleles in each species are exceptionally divergent. The data further suggest either that each triallelic system has arisen independently in these two New World monkey lineages or that in each species at least seven deletions and insertions (14 in the two species) in intron 4 have been transferred and homogenized among the alleles by gene conversion or recombination. In either case, the alleles in each species apparently have persisited more than 5 million years and probably have been maintained by overdominant selection.

Appendix

Family Name	First Name	Title	E-Mail-Adress	1996	Status
Aarnisalo	Eero	Dr		Yes	Regular
Abraham	F.	Prof.		Yes	Regular
Abramov	Israel	Prof.	ixrbc@cunyvm.cuny.edu	No	Regular
Adams	Anthony	Prof.		Yes	Regular
Ahnelt	Peter	Dr	peter.ahnelt@univie.ac.at	Yes	Regular
Akita	Munehira	Prof.	c51666@jpnkudpc.bitnet	Yes	Regular
Alexander	Kenneth	Dr	kennalex@uic.edu	Yes	Regular
Alexander	Catherine	Miss	cod08@keele.ac.uk	Yes	Student
Arden	Geoffrey	Prof.		Yes	Retired
Bailey	James	Dr		Yes	Regular
Barbur	J.	Prof.	j.l.barbur@city.ac.uk	Yes	Regular
Barker	Felix	Prof.		Yes	Regular
Berendschot	Tos	Dr	tosb@cv.ruu.nl	Yes	Regular
Biersdorf	William	Dr		Yes	Regular
Birch	Jennifer	Mrs		Yes	Regular
Bonnardel	Valerie	Dr		No	Regular
Bowman	K.	Prof.	k.bowman@qut.edu.au	Yes	Regular
Bristow	Joanne	Miss	joanne.bristow@ic.ac.uk	Yes	Regular
Buck	Steven	Dr	sbuck@u.washington.edu	Yes	Regular
Burns	Stephen	Dr	sburns@vision.eri.harvard.edu	No	Regular
Capilla	Pascal	Prof.		No	Regular
Cavonius	C.	Prof. Dr	cavonius@arb-phys.uni-dortmund.de	Yes	Regular
Chan	Hoover	Dr		No	Regular
Chisholm	I.	Prof.		Yes	Retired
Cicerone	Carol	Prof.	cciceron@uci.edu	Yes	Regular
Cobb	S.	Dr		Yes	Regular
Cohen	Joseph	Dr	jcohen@mtholyoke.edu	Yes	Regular
Cole	G.	Dr		No	Regular
Cole	B.	Prof.		Yes	Regular
Comerford	James	Dr	james6cec@aol.com	Yes	Regular

Crognale	Michael	Dr	mikro@u.washington.edu	Yes	Regular
Dain	S.	Prof.		Yes	Regular
Deeb	Samir	Dr	deeb@genetics.washington.edu	Yes	Regular
Derefeldt	Gunilla	Dr	derefeldt@lin.foa.se	Yes	Regular
Dessy	Carla	Dr		Yes	Regular
Devos	Maria	Dr		No	Regular
Dickinson	C.	Dr		No	Regular
Drum	Bruce	Dr	bad@fdadr.cdrh.fda.gov	Yes	Regular
Eisner	Alvin	Dr	eisnera@ohsu.edu	No	Regular
Elsner	Ann	Dr	annn@elsner.eri.harvard.edu	Yes	Regular
Erb	Carl	Dr		Yes	Regular
Eysteinsson	Thor	Dr	thorey@rhi.hi.is	Yes	Regular
Farran	Marina	Dr		Yes	Regular
Fletcher	R.	Prof.		Yes	Regular
Foster	David	Prof.	d.h.foster@aston.ac.uk	Yes	Regular
Frederiksen	Jette	Dr		Yes	Regular
Frumkes	Thomas	Prof.	tefqc@qcuaxa.acc.qc.edu	Yes	Regular
Fusco	Rosa	Dr		No	Regular
Gaudart	L.	Dr		No	Regular
Gerling	Jurgen	Dr		No	Regular
Gouras	Peter	Prof.		No	Regular
Green-Armytage	Paul	Dr		Yes	Honorary
Greenstein	Vivenne	Dr		No	Regular
Grützner	Peter	Prof.		Yes	Retired
Gunji	Hisato	Dr		No	Regular
Haegerstrom-Portnoy	Gunilla	Dr	ghp@spectacle.berkeley.edu	No	Regular
Hagstrom	Stephanie	Ms	sstrom@post.itts.mcw.edu	No	Student
Hahn	Chun	Dr		Yes	Regular
Hansen	Egill	Dr		Yes	Retired
Hart	William	Dr		No	Regular
He	J-C	Mr		No	Student
Hedin	Anders	Dr		Yes	Regular

Hermês	Danielle	Dr		Yes	Regular
Heron	G.	Mr		Yes	Regular
Hood	Donald	Prof.	don@psych.columbia.edu	Yes	Regular
Hovis	Jeffrey	Dr	jhovis@sciborg.uwaterloo.ca	Yes	Regular
Huang	Shi-zhou	Dr		No	Regular
Hukami	K.	Dr		Yes	Regular
Hurvich	Leo	Prof.	leo@catell.psych.upenn.edu	Yes	Retired
Ichikawa	Kazuo	Dr		Yes	Regular
Illveca	Carlos	Dr		Yes	Regular
Ionica	M.V.	Dr		No	Regular
Jacobs	Gerald	Prof.	jacobs@psych.ucsb.edu	Yes	Regular
Jägle	Herbert		heja@uni-tuebingen.de	Yes	Student
Jordan	Gabrielle	Dr		No	Regular
Keunen	Jan	Dr		Yes	Regular
King-Smith	P.	Prof.	king-smith.1@osu.edu	Yes	Regular
Kinnear	Paul	Dr	p.kinnear@abdn.ac.uk	Yes	Regular
Kinney	Jo Ann	Dr		No	Retired
Kitahara	Kenji	Prof.	kkenji@po.iijnet.or.jp	Yes	Regular
Knoblauch	Kenneth	Dr	ken.knoblauch@cismibm.univ-lyon1.fr	Yes	Regular
Knox Laird	Heather	Dr	h-klaird@ihug.co.nz	Yes	Regular
Kohler	Konrad	Dr	konrad.kohler@uni-tuebingen.de	Yes	Regular
Kraft	James	Dr	jkraft@psych.colorado.edu	No	Student
Krastel	Hermann	Prof.		No	Regular
Kremers	Jan	Dr	jan.kremers@uni.tuebingen.de	Yes	Regular
Kubo	Akiko	Dr		Yes	Regular
Kudo	Hitoshi	Dr		Yes	Regular
Kulikowski	J.	Prof.	ymum21@umist.ac.uk	Yes	Regular
Kurtenbach	Anne	Dr	anne.kurtenbach@uni.tuebingen.de	Yes	Regular
Kurusu	Ruriko	Dr		No	Regular
Lagerlöf	Olof	Dr		Yes	Regular
Lakowski	Romuald	Prof.		Yes	Honorary
Lanthony	P.	Dr		Yes	Regular

Le Rohellec	J.	Mr		No	Student
Lee	Barry	Dr	lee@mike.dnet.gwdg.de	Yes	Regular
Leid	Jean	Dr		Yes	Regular
Leivo	P.	Dr		Yes	Retired
Lessel	M.	Dr		Yes	Regular
Ling	B.	Miss		No	Student
Lingelbach	Bernd	Dr	elbe.lein@t-online.de	No	Regular
Littlewood	Ross	Dr		Yes	Regular
Logvinenko	Alexander	Dr	a.logvinenko@queens-belfast.ac.uk	Yes	Regular
Machemer	Helmut	Dr		No	Regular
MacLeod	Donald	Prof.	dmacleod@ucsd.edu	No	Regular
Maguire	Greg	Dr	gmaguire@gsbs.gs.uth.tmc.edu	No	Regular
Malbrel	Christian	Dr		Yes	Regular
Mäntyjärvi	Maija	Dr		Yes	Regular
Marré	Marion	Prof.		Yes	Honorary
Mattiello	Maria	Dr		Yes	Regular
McKeefrey	D.	Mr		No	Regular
Miyahara	Eriko	Dr	erikom@scs.unr.edu	Yes	Regular
Miyahara	S.	Dr		No	Regular
Mollon	John	Dr	jm123@uk.ac.cam	Yes	Regular
Montag	Ethan	Dr	edmpci@rit.edu	Yes	Regular
Mora-Ferrer	C.	Mr	cmora@life.bio.sunysb.edu	No	Regular
Moreland	J.	Prof.	coa09@keele.ac.uk	Yes	Regular
Morland	A.	Dr	a.morland@ic.ac.uk	No	Regular
Nagy	Allen	Dr	anagy@desire.wright.edu	No	Regular
Neitz	Maureen	Dr		No	Regular
Neitz	Jay	Dr	jneitz@post.its.mcw.edu	No	Regular
Nimsgern	Christoph	Herr		Yes	Student
Obara	Fukuko	Dr		No	Regular
Ogilvie	J.	Mr		No	Student
Ohta	Yasuo	Prof.		No	Regular
Orazem	A.	Dr		Yes	Student
Parker	John	Dr	ja.parker@utoronto.ca	Yes	Regular

Paulus	W.	Dr		Yes	Regular
Pease	Paul	Dr		No	Regular
Pefferkorn	Stephan	Dr		No	Student
Pelizzone	Marco	PD Dr	mape@diogenes.hcnge.ch	Yes	Regular
Pérez-Carpinell	J.	Dr		Yes	Regular
Peris	Elvira	Dr		Yes	Regular
Pidgeon	K.	Dr	kpidgeon@sola.com.au	Yes	Regular
Pinckers	A.	Dr		Yes	Regular
Pokorny	Joel	Prof.	s+p@chroma.uchicago.edu	Yes	Regular
Pollack	Robert	Prof.		Yes	Regular
Rainaldi	L.	Dr		No	Regular
Regan	Benjamin	Mr		No	Student
Reitner	Andreas	Dr	andreas.reitner@akh-wien.ac.at	Yes	Regular
Reitsamer	H.	Herr		No	Student
Ripley	Lionel	Dr	l.g.ripley@sussex.ac.uk	Yes	Regular
Rokugo	Touko	Dr		No	Regular
Ronchi	Lucia	Prof.		Yes	Regular
Roth	André	Dr		Yes	Regular
Rougier	M. B.	Dr		No	Regular
Roy	Monique	Dr		Yes	Regular
Ruddock	K.	Prof.		No	Regular
Rüttiger	Lukas	Dr	lruetti@gwdg.de	Yes	Student
Sample	Pamela	Dr	psample@eyecenter.ucsd.edu	Yes	Regular
Sanocki	Elizabeth	Dr		No	Regular
Scase	Mark	Dr	mscase@dmu.ac.uk	Yes	Regular
Schneck	Marilyn	Dr	mes@mindseye.berkeley.edu	Yes	Regular
Scholl	Hendrik	Herr		Yes	Student
Scholl	Horst	Prof.		Yes	Regular
Serra	Antonina	Prof.		No	Regular
Sharpe	Lindsay	Dr	ted.sharpe@uni-tuebingen.de	Yes	Regular
Shevell	Steven	Dr	shevell@uchicago.edu	Yes	Regular
Shimizu	Kaneo	Dr		Yes	Regular

Smith	Vivianne	Prof.		Yes	Regular
Sommerhalder	Jörg	Mr		Yes	Regular
Spalding	John	Dr		Yes	Regular
Sperling	Harry	Prof.	sperling@acs-mail.bu.edu	Yes	Retired
Steinschneider	T.	Dr		Yes	Regular
Sternheim	Charles	Dr	chuck@bss3.umd.edu	Yes	Regular
Stockman	Andrew	Dr	astockman@ucsd.edu	No	Regular
Swanson	William	Dr	bill_swanson@acd.org	Yes	Regular
Tamaki	Ryutaro	Dr		Yes	Regular
Tamiya	Noriko	Dr		Yes	Regular
Tanabe	Shoka	Dr		Yes	Regular
Tausch	Hubert	Dr	bht@rz.uni.jena.de	Yes	Regular
Teller	Davida	Prof.	dteller@u.washington.edu	Yes	Regular
Terasaki	H.	Dr		Yes	Regular
Toyoguchi	A.	Dr		No	Regular
Uji	Yukitaka	Dr	uji@clin.medic.mie-u.ac.jp	Yes	Regular
Usui	Shiro	Dr	usui@tut.ac.jp	No	Regular
Uvijls	A.	Mr		Yes	Regular
Valberg	Arne	Prof.	arne.valberg@avh.unit.no	Yes	Regular
van Norren	Dirk	Prof.		Yes	Regular
Verdon	Wayne	Dr	verdon@mindseye.berkeley.edu	No	Regular
Verriest	J.	Mme		Yes	Honorary
Viénot	F.	Dr	vienot@mnhn.fr	Yes	Regular
Vingrys	Algis	Dr	a.vingrys@optometry.unimelb.edu.au	Yes	Regular
Vogt	Guido	Dr		Yes	Regular
Voke	Janet	Dr		Yes	Regular
Vola	Jean-Louis	Dr		Yes	Retired
Volbrecht	Vicki	Dr	vickiv@lamar.colostate.edu	Yes	Regular
von Campenhausen	C.	Prof.		No	Regular
Walraven	Pieter	Dr	pwalrave@tm.tno.nl	No	Regular
Walraven	J.	Dr		Yes	Retired
Watanabe	Akira	Dr	kff03177@niftyserve.or.jp	Yes	Regular

Wehrhahn	C.	Dr	wehrhahn@eddie.mpik-tueb.mog.de	Yes	Regular
Werner	John	Dr	jwerner@clipr.colorado.edu	Yes	Regular
Williams	C.	Mr		No	Student
Wright	J.	Miss		No	Student
Wright	W.	Prof.		Yes	Honorary
Yamade	Shinichi	Dr	syamade@bellebsd.shiga-med.ac.jp	Yes	Regular
Yasuma	Tetsushi	Dr	yasuma@po.lijnet.or.jp	Yes	Regular
Yorke	H.	Dr		Yes	Regular
Young	Rockefeller	Dr	eyersy@ttuhsc.edu	Yes	Regular
Zanlonghi		Docteur		Yes	Regular
Zisman	Frank	Dr	zisman@spectacle.berkeley.edu	Yes	Regular
Zrenner	Eberhart	Prof.	ezrenner@uni-tuebingen.de	Yes	Regular
Zucca	A.	Dr		Yes	Regular
Zwas	Fred	Dr	fzwas@waynest1	Yes	Regular