

DIVISION IV: STARS

(ETOILES)

PRESIDENT: Lawrence Cram

**BOARD: Beatriz Barbay, Michele Gerbaldi, David Lambert, Roberto Pallavicini,
Jean-Paul Zahn & Hans Zinnecker,**

Commission 26: Double and Multiple Stars

Commission 29: Stellar Spectra

Commission 35: Stellar Constitution

Commission 36: Theory of Stellar Atmospheres

Commission 45: Stellar Classification

1. INTRODUCTION

Division IV organises astronomers studying the characterisation, interior and atmospheric structure, and evolution of stars of all masses, ages, and chemical compositions. The Executive Committee of the Division comprises the Presidents of the Five Commissions of the Division, and the Past Division President.

One of the main tasks of the Division is to advise the Executive Committee of the IAU on meetings proposed by members of the IAU. Members wishing to seek IAU support for proposed scientific meetings should follow the IAU rules for such meetings.

2. SCIENTIFIC HIGHLIGHTS 1997-1999

Highlights of the triennium are reported at a sequence of important scientific Symposia and Colloquia. IAU-sponsored meetings of relevance to Division IV include:

Symposium 182

HERBIG-HARO FLOWS AND THE BIRTH OF LOW-MASS STARS

Chamonix, France, January 20-26, 1997

Eds. B. Reipurth & C. Bertout

Kluwer, ISBN 0-7923-4661-0, 1997.

Symposium 185

NEW EYES TO SEE INSIDE THE SUN AND THE STARS

Kyoto, Japan, August 18-22, 1997.

Eds: D.W. Kurtz & J. Leibacher

Kluwer, ISBN 0-7923-5075-8, 1998.

Symposium 187

COSMIC CHEMICAL EVOLUTION

Kyoto, Japan, August 26-30, 1997

Eds: J.W. Truran & K. Nomoto

Kluwer, in prep. Symposium 189

**FUNDAMENTAL STELLAR PROPERTIES:
THE INTERACTION BETWEEN OBSERVATION AND THEORY**

Sydney, Australia, January 13-17, 1997

Eds. T. Bedding, A.J. Booth & J. Davis

Kluwer, ISBN 0-7923-4651-3, 1997.

Symposium 191

ASYMPTOTIC GIANT BRANCH STARS

Montpellier, France, August 28 - September 1, 1998

Eds. A. Lebre, T. le Bertre & C. Waelkens

Astr. Soc. Pacific, ISBN 1-886733-90-2, 1999.

Symposium 192

THE STELLAR CONTENT OF LOCAL GROUP GALAXIES

Cape Town, South Africa, September 7-12, 1998

Eds. P. Whitelock & R. Cannon Astr. Soc. Pacific, ISBN 1-886733-82-1, 1999.

Symposium 193

WOLF-RAYET PHENOMENA IN MASSIVE STARS AND STARBURST GALAXIES

Puerto Vallarta, Mexico, November 3-7, 1998

Eds. K.A. van der Hucht, G. Koenigsberger & P.R.J. Eenens

Astr. Soc. Pacific, ISBN 1-58381-004-8, 1999.

Symposium 196

PRESERVING THE ASTRONOMICAL SKY: AN IAU/COSPAR/UN SPECIAL ENVIRONMENTAL SYMPOSIUM

Vienna, Austria, July 12-16, 1999

Eds. R.J. Cohen & W.T. Sullivan

Astr. Soc. Pacific, in prep.

Symposium 198

THE LIGHT ELEMENTS AND THEIR EVOLUTION

Natal, Brazil, November 22-26, 1999

Eds. L. da Silva, R. de Medeiros & M. Spite

Astr. Soc. Pacific, in prep.

Colloquium 163

ACCRETION PHENOMENA AND RELATED OUTFLOWS

Port Douglas, Australia, July 15-19, 1996

Eds: D.T. Wickramasinghe, G. Bicknell & L. Ferrario

ASP Conf. Ser. Vol. 121, ISBN 1-886733-41-4, 1997.

Colloquium 169

VARIABLE AND NON-SPHERICAL STELLAR WINDS IN LUMINOUS HOT STARS

Heidelberg, Germany, June 15-19, 1998

Eds. B. Wolf, O. Stahl & A.W. Fullerton

Springer-Verlag (Lecture Notes in Physics, Vol. 523), ISBN 3-540-65702-9, 1999.

Colloquium 170

PRECISE STELLAR RADIAL VELOCITIES

Victoria, Canada, June 21-26, 1998

Eds. J.B. Hearnshaw & C.D. Scarfe

ASP Conf. Ser. Vol. 185, ISBN 1-58381-011-0.

Colloquium 175

THE BE PHENOMENON IN EARLY-TYPE STARS

Alicante, Spain, June 28 - July 2, 1999

Eds. M.A. Smith, H. Henrichs & J. Fabregat In prep.

Colloquium 176

THE IMPACT OF LARGE-SCALE SURVEYS ON PULSATING STAR RESEARCH

Budapest, Hungary, August 8-12, 1999

Eds. L. Szabados & D.W. Kurtz

In prep.

Colloquium 177

PULSAR ASTRONOMY - 2000 AND BEYOND

Bonn, Germany, August 30 - September 3, 1999

Eds. M. Kramer, N. Wex & R. Wielebinski

In prep.

Colloquium 179

CYCLICAL EVOLUTION OF SOLAR MAGNETIC FIELDS: ADVANCES IN THEORY AND OBSERVATION

Kodaikanal, India, December 13-16, 1999

Eds. Venkatakrisnan, O. Engvold & A.R. Choudhuri

In prep.

3. WORKING GROUPS

Several Working Groups associated with Division IV and its Commissions are very active in their areas of interest. The Working Groups, their Chairs, and their Publications are:

Title	Chair	Newsletter
Hot Massive Stars	Dr P. Eenens	Hot Star Newsletter
Standard Stars	Dr R.F. Garrison	Standard Stars Newsletter
Ap and related stars	Dr M. Takada-Hidai	Ap and related stars
Active B Stars	Dr D. Baade	Be Star Newsletter
Peculiar Red Giants	Dr R.F. Wing	Chemically Peculiar Red Giant Stars
Spectroscopic Data Archives	Dr E. Griffin	The Virtual Observatory

4. FURTHER INFORMATION

WWW contacts for the Commissions and Working Groups associated with Division IV are:

Name	URL
Commission 26	www.chara.gsu.edu/DoubleStars/intro.html
Commission 29	www.iagusp.usp.br/~barbuy/com29.html
Commission 35	www.astrop.physics.usyd.edu.au/IAU/comm35.html
Commission 36	www.astrop.physics.usyd.edu.au/IAU/comm36.html
Commission 45	www.iap.fr/com45iau
WG: Hot Massive Stars	www.astro.ugto.mx/~eenens/hot/wg.html
WG: Standard Stars	clavius.as.arizona.edu/ssn/
WG: Ap and Related Stars	obswww.unige.ch/~north/APN/Welcom.html
WG: Active B Stars	www.limber.org/benews/iauwg.abs.html
WG: Peculiar Red Giants	www-astronomy.mps.ohio-state.edu/~wing/prgnews.html
WG: Spectroscopic Data Archives	herbie.ucolick.org/vo/
Division IV	www.astrop.physics.usyd.edu.au/IAU

L. Cram

President of the Division