

MESSENGER INDEX 1997 (Nos. 87–90)

S U B J E C T I N D E X

Organisational Matters

- R. Giacconi: Important Events in Chile **87**, 1
Speech by the President of the ESO Council,
Dr. Peter Creola **87**, 2
Speech by the Director General of ESO, Prof.
Riccardo Giacconi **87**, 2
Speech by the Minister of Foreign Affairs, Mr.
José Miguel Insulza **87**, 3
Speech by H.E. President Eduardo Frei
87, 5
R.M. West: The Time Capsule **87**, 5

Telescopes and Instrumentation

- M. Tarenghi: Paranal, December 1996 **87**, 6
O. von der Lühe, D. Bonacini, F. Derie, B.
Koehler, S. Lévêque, E. Manil, A. Michel,
M. Verola: A New Plan for the VLT **87**, 8
S. Randich and M. Shetrone: New CASPEC
Manual and Simulator **87**, 18
N. Devillard: The Eclipse Software **87**, 19
S. Stanghellini, M. Hess, G. Raffi, J.-M. Mor
resmau, F. Koch, M. Kraus: The M1 Cell –
M3 Tower Undergoes Tests in Europe
88, 1
S. Stanghellini, G. Jander, A. Michel, A. van
Kesteren, M. Duchateau, W. Ansorge: The
Secondary Unit of the VLT Approaches
Delivery **88**, 3
M. Schneermann and M. Groessl: The VLT
Mirror Coating Unit Ready for Shipment
88, 4
J.-L. Lizon: New Cryostats for Scientific CCD
Systems in the VLT Era **88**, 6
H.U. Käufl: Ground-Based Astronomy in the
10 and 20 μm Atmospheric Windows at
ESO: Two New Instruments, VISIR for the
VLT and TIMMI for La Silla Now Under Way
88, 8
T. Lehmann, T. Böker, A. Krabbe, J.W.V.
Storey: 10- and 20- μm Imaging with MA
NIAC **88**, 9
A. Moorwood: SOFI at the NTT **88**, 11
A. Kaufer, B. Wolf, J. Andersen, L. Pasquini:
FEROS, the Fiber-fed Extended Range
Optical Spectrograph for the ESO 1.52-m
Telescope **89**, 1
M. Sarazin: ESO Internal Workshop on Fore
casting Astronomical Observing Condi
tions — 29–30 May 1997. Predicting Ob
serving Conditions at ESO Observatories
— Reality and Perspectives **89**, 5
Sunset on Paranal **89**, 10
C. Madsen: ESO at the Leipzig Fair **89**, 13
S. D'Odorico: A Deep Field with the Upgraded
NTT **90**, 1
M. Tarenghi: The ESO VLT – Progress Re
port **90**, 2
M. Sarazin: A Cloudy Night Again? Blame El
Niño! A Study of the Impact of El Niño on
the Cloud Cover Above ESO Observato
ries in Chile **90**, 5

NEWS FROM THE NTT:

- J. Spyromilio **87**, 14
J. Spyromilio **88**, 12

- G. Mathys **89**, 11
G. Mathys **90**, 7

THE LA SILLA NEWS PAGE

- S. Guisard: The Image Quality of the 3.6-m
Telescope (Part V). What Happens far
from Zenith? **87**, 15
From the 3.6-m and 2.2-m Teams **87**, 17
J. Storm: 2.2-m Upgrade Plan **87**, 17
J. Brewer and J. Storm: News from the Danish
1.54-m Telescope **87**, 17
2.2-m and IR Teams: A New Fabry-Perot for
IRAC2b **88**, 13
R. Grede, S. Guisard, G. Ihle: Load Cells In
stalled in the 3.6-m M1 Mirror Cell **88**, 13
C. Lidman: SOFI – Current Status **90**, 9
S. Guisard, U. Weilenmann, A. Van Dijssel
donk, H.U. Käufl, J. Roucher: Image Quali
ty of the 3.6-m Telescope (Part VI). Now
Diffraction Limited at 10 Microns at the f/35
Focus **90**, 9
R. Grede, S. Guisard, G. Ihle: Image Quality
of the 3.6-m Telescope (Part VII). Installa
tion of a Spring System in the 3.6-m M1
Mirror Cell **90**, 11

VLT DATA FLOW OPERATIONS NEWS:

- D. Silva and P. Quinn **90**, 12

Science with the VLT/VLTI

- A. Renzini and B. Leibundgut: The VLT Sci
ence Cases: a Test for the VLT **87**, 21
A. Renzini and L.N. da Costa: The ESO Imag
ing Survey **87**, 23
D. Reimers and L. Wisotzki: Highlights from
the Key Programme "A Wide-Angle Objec
tive Prism Survey for Bright Quasars": The
Hamburg/ESO Survey **88**, 14
F. Paresce and A. Renzini: The Search for
Extrasolar Planets at ESO. Final Report of
the ESO Working Group on the Detection of
Extrasolar Planets (Without Appendi
ces) **90**, 15

Reports from Observers

- N. Epchtein et al.: The Deep Near-Infrared
Southern Sky Survey (DENIS) **87**, 27
T.R. Bedding, J.G. Robertson, R.G. Marson,
A.A. Zijlstra, O. von der Lühe: R Doradus:
the Biggest Star in the Sky **87**, 34
A. Quirrenbach and H. Zinnecker: Molecular
Hydrogen Towards T Tauri Observed with
Adaptive Optics **87**, 36
N. Ageorges and J.R. Walsh: Examples of
High-Resolution Imaging and Polarimetry
of R. Monocerotis and NGC 2261 **87**, 39
R. Mignani, P.A. Caraveo, G.F. Bignami:
Proper Motion as a Tool to Identify the Opti
cal Counterparts of Pulsars: the Case of
PSR0656+14 **87**, 43
S. Savaglio: On the Nature of the High
Redshift Universe **87**, 45

- F.P. Nasuti, R. Mignani, P.A. Caraveo, G.F.
Bignami: Optical Observations Provide a
New Measure of the Vela Pulsar's Proper
Motion **87**, 48
Bavarian Prime Minister at La Silla **87**, 50
Bo Reipurth: Herbig-Haro Jets and their Role
in Star Formation **88**, 20
EROS Collaboration: A Supernova Found by
EROS, Followed with the 1.5-m Danish,
and Pictured and Characterised at the
3.6-m Telescope **88**, 26
P.-A. Duc, I.F. Mirabel: Tidal Dwarf Galaxies
89, 14
M.C. Festou, M. Gunnarsson, A. Winnberg,
H. Rickman, G. Tancredi: The Activity of
Comet 29P/Schwassmann-Wachmann 1
Monitored Through the CO J(2–1) Emis
sion Line at 230 GHz **89**, 18
V. de Lapparent, G. Galaz, S. Arnouts, S.
Bardelli, M. Ramella: The ESO-Sculptor
Faint Galaxy Survey: Large-Scale Struc
ture and Galaxy Populations at $0.1 \leq z \leq 0.5$
89, 21
L. Kaper, F. Comerón, J. Th. van Loon, A.A.
Zijlstra: Massive Stars Running Through
Space **89**, 28
F. Comerón, P. Claes, G. Rieke: Oph 2320.8–
1721, a Young Brown Dwarf in the
 ρ Ophiuchi Cluster: Views from the
Ground and from Space **89**, 31
J.-L. Monin, H. Geoffray: PMS Binaries in
Southern Molecular Clouds Observed with
ADONIS + COMIC **89**, 33
W. Brandner, J.M. Alcalá, S. Frink, M. Kunkel:
An ESO 3.6-m/Adaptive Optics Search for
Young Brown Dwarfs and Giant Planets
89, 37
C. Madsen: The ESO Exhibition at the IAU
General Assembly in Kyoto, Japan **89**, 40
D. Minniti, T.R. Bedding, F. Courbin, B. Sams:
Stellar Populations with Adaptive Optics:
Four Test Cases **90**, 19
E. Molinari, G. Chincarini, A. Moretti, S. De
Grandi: The Luminosity Function of Clus
ters of Galaxies: A 496. New Clues to Clus
ter Formation and Evolution **90**, 23
J. Guibert: From EROS to DUO, ALADIN,
GATT and Others: Wide-Field Astron
omy **90**, 25
D.J. Lennon, S. Mao, J. Reetz, T. Gehren, L.
Yan, A. Renzini: Real-Time Spectroscopy
of Gravitational Microlensing Events –
Probing the Evolution of the Galactic
Bulge **90**, 30

Other Astronomical News

- R. West and C. Madsen: The Astronomy On
Line Project **87**, 51
R. Albrecht, W. Freudling, R. Thomas: Avail
ability of IDL at ESO/ST-ECF **87**, 54
P. Magain, F. Courbin, S. Sohy: Deconvolu
tion with Correct Sampling **88**, 28
F. Courbin, J.-F. Claeskens: High-Resolu
tion Imaging with Bad Seeing: PKS 1610-771
as a Test Case **88**, 32
L.B. Lucy: Enhanced Resolution with Two
Channel Deconvolution Codes **89**, 41
P. Dierickx: Book Review: Reflecting Optics I
(R.N. Wilson) **90**, 35

Announcements

- L. Woltjer: Gerhard Bachmann (1931–1996) **87**, 57
(7215) Gerhard = 1977 FS **87**, 57
ESO Studentship Programme **87**, 57
First Announcement: ESO Workshop on Cyclical Variability in Stellar Winds – recent developments and future applications **87**, 58
Personnel Movements **87**, 58
List of Preprints (November 1996 – February 1997) **87**, 58
Translation of Speech by Foreign Minister Mr. José Miguel Insulza **87**, 58
Translation of Speech by H.E. President Eduardo Frei **87**, 59

- R. Hook: Mirror of NOAO IRAF Archive Now Available at ST-ECF/ESO **88**, 34
L. Da Costa: ESO Imaging Survey: Update **88**, 34
Joint ESO/Australia Workshop “Looking Deep in the Southern Sky” **88**, 34
ESO Internal Workshop on Forecasting Astronomical Observing Conditions **88**, 35
First Announcement of ESO/OSA Topical Meeting “Astronomy with Adaptive Optics – Present Results and Future Programmes” **88**, 35
Personnel Movements **88**, 35
ESO Fellowship Programme 1998/99 **88**, 35
Vacancy Notice: Staff Astronomers on La Silla **89**, 42
ESO Astrophysics Symposia Proceedings **89**, 42

- Personnel Movements **89**, 42
List of Scientific Preprints **89**, 43
M. Sarazin: Uzbek Astronomy Looking Ahead Towards the Future **89**, 43
ESO Conference Proceedings Still Available **89**, 43
CNRS – Observatoire de Haute-Provence and European Southern Observatory: 6th ESO/OHP Summer School in Astrophysical Observations **90**, 36
Personnel Movements **90**, 36
List of Scientific Preprints (October–November 1997) **90**, 36
ESO Director General Receives Honoris Causa Degree **90**, 36
Vacancy Notice: 20 Positions for Scientists and Engineers **90**, 37

A U T H O R I N D E X

A

- N. Ageorges and J.R. Walsh: Examples of High-Resolution Imaging and Polarimetry of R. Monocerotis and NGC 2261 **87**, 39
R. Albrecht, W. Freudling, R. Thomas: Availability of IDL at ESO/ST-ECF **87**, 54

B

- T.R. Bedding, J.G. Robertson, R.G. Marson, A.A. Zijlstra, O. von der Lühe: R Doradus: the Biggest Star in the Sky **87**, 34
W. Brandner, J.M. Alcalá, S. Frink, M. Kunkel: An ESO 3.6-m/Adaptive Optics Search for Young Brown Dwarfs and Giant Planets **89**, 37
J. Brewer and J. Storm: News from the Danish 1.54-m Telescope **87**, 17

C

- F. Comerón, P. Claeys, G. Rieke: Oph 2320.8–1721, a Young Brown Dwarf in the ρ Ophiuchi Cluster: Views from the Ground and from Space **89**, 31
F. Courbin, J.-F. Claeskens: High-Resolution Imaging with Bad Seeing: PKS 1610-771 as a Test Case **88**, 32

D

- L. Da Costa: ESO Imaging Survey: Update **88**, 34
S. D'Odorico: A Deep Field with the Upgraded NTT **90**, 1
V. de Lapparent, G. Galaz, S. Arnouts, S. Bardelli, M. Ramella: The ESO-Sculptor Faint Galaxy Survey: Large-Scale Structure and Galaxy Populations at $0.1 \leq z \leq 0.5$ **89**, 21
N. Devillard: The Eclipse Software **87**, 19
P. Dierickx: Book Review: Reflecting Telescope Optics I (R.N. Wilson) **90**, 35
P.-A. Duc, I.F. Mirabel: Tidal Dwarf Galaxies **89**, 14

E

- N. Epchtein et al.: The Deep Near-Infrared Southern Sky Survey (DENIS) **87**, 27

F

- M.C. Festou, M. Gunnarsson, A. Winnberg, H. Rickman, G. Tancredi: The Activity of Comet 29P/Schwassmann-Wachmann 1 Monitored Through the CO J(2–1) Emission Line at 230 GHz **89**, 18

G

- R. Giacconi: Important Events in Chile **87**, 1
R. Gredel, S. Guisard, G. Ihle: Load Cells Installed in the 3.6-m M1 Mirror Cell **88**, 13
R. Gredel, S. Guisard, G. Ihle: Image Quality of the 3.6-m Telescope (Part VII). Installation of a Spring System in the 3.6-m M1 Mirror Cell **90**, 11
J. Guibert: From EROS to DUO, ALADIN, GATT and Others: Wide-Field Astronomery **90**, 25
S. Guisard: The Image Quality of the 3.6-m Telescope (Part V). What Happens far from Zenith? **87**, 15
S. Guisard, U. Weilenmann, A. Van Dijsseldonk, H.U. Käufl, J. Roucher: Image Quality of the 3.6-m Telescope (Part VI). Now Diffraction Limited at 10 Microns at the f/35 Focus **90**, 9

H

- R. Hook: Mirror of NOAO IRAF Archive Now Available at ST-ECF/ESO **88**, 34

K

- L. Kaper, F. Comerón, J. Th. van Loon, A.A. Zijlstra: Massive Stars Running Through Space **89**, 28
A. Kaufer, B. Wolf, J. Andersen, L. Pasquini: FEROS, the Fiber-fed Extended Range Optical Spectrograph for the ESO 1.52-m Telescope **89**, 1
H.U. Käufl: Ground-Based Astronomy in the 10 and 20 μ m Atmospheric Windows at ESO: Two New Instruments, VISIR for the VLT and TIMMI for La Silla Now Under Way **88**, 8

L

- T. Lehmann, T. Böker, A. Krabbe, J.W.V. Storey: 10- and 20- μ m Imaging with MANIAC **88**, 9
D.J. Lennon, S. Mao, J. Reetz, T. Gehren, L. Yan, A. Renzini: Real-Time Spectroscopy of Gravitational Microlensing Events – Probing the Evolution of the Galactic Bulge **90**, 30
C. Lidman: SOFI – Current Status **90**, 9
J.-L. Lizon: New Cryostats for Scientific CCD Systems in the VLT Era **88**, 6
L.B. Lucy: Enhanced Resolution with Two-Channel Deconvolution Codes **89**, 41

M

- C. Madsen: ESO at the Leipzig Fair **89**, 13
C. Madsen: The ESO Exhibition at the IAU General Assembly in Kyoto, Japan **89**, 40
P. Magain, F. Courbin, S. Sohy: Deconvolution with Correct Sampling **88**, 28
G. Mathys: News from the NTT **89**, 11
G. Mathys: News from the NTT **90**, 7
R. Mignani, P.A. Caraveo, G.F. Bignami: Proper Motion as a Tool to Identify the Optical Counterparts of Pulsars: the Case of PSR0656+14 **87**, 43
D. Minniti, T.R. Bedding, F. Courbin, B. Sams: Stellar Populations with Adaptive Optics **90**, 19
E. Molinari, G. Chincarini, A. Moretti, S. De Grandi: The Luminosity Function of Clusters of Galaxies: A 496. New Clues to Cluster Formation and Evolution **90**, 23
J.-L. Monin, H. Geoffray: PMS Binaries in Southern Molecular Clouds Observed with ADONIS + COMIC **89**, 33
A. Moorwood: SOFI at the NTT **88**, 11

N

- F.P. Nasuti, R. Mignani, P.A. Caraveo, G.F. Bignami: Optical Observations Provide a New Measure of the Vela Pulsar's Proper Motion **87**, 48

P

- F. Paresce and A. Renzini: The Search for Extrasolar Planets at ESO. Final Report of the ESO Working Group on the Detection of Extrasolar Planets **90**, 15

Q

- A. Quirrenbach and H. Zinnecker: Molecular Hydrogen Towards T Tauri Observed with Adaptive Optics **87**, 36

R

- S. Randich and M. Shetrone: New CASPEC Manual and Simulator **87**, 18
D. Reimers and L. Wisotzki: Highlights from the Key Programme “A Wide-Angle Objective Prism Survey for Bright Quasars”: The Hamburg/ESO Survey **88**, 14
Bo Reipurth: Herbig-Haro Jets and their Role in Star Formation **88**, 20
A. Renzini and B. Leibundgut: The VLT Science Cases: a Test for the VLT **87**, 21

ESO, the European Southern Observatory, was created in 1962 to . . . establish and operate an astronomical observatory in the southern hemisphere, equipped with powerful instruments, with the aim of furthering and organising collaboration in astronomy . . . It is supported by eight countries: Belgium, Denmark, France, Germany, Italy, the Netherlands, Sweden and Switzerland. It operates the La Silla observatory in the Atacama desert, 600 km north of Santiago de Chile, at 2,400 m altitude, where fourteen optical telescopes with diameters up to 3.6 m and a 15-m submillimetre radio telescope (SEST) are now in operation. The 3.5-m New Technology Telescope (NTT) became operational in 1990, and a giant telescope (VLT = Very Large Telescope), consisting of four 8-m telescopes (equivalent aperture = 16 m) is under construction. It is being erected on Paranal, a 2,600 m high mountain in northern Chile, approximately 130 km south of Antofagasta. Eight hundred scientists make proposals each year for the use of the telescopes at La Silla. The ESO Headquarters are located in Garching, near Munich, Germany. It is the scientific, technical and administrative centre of ESO where technical development programmes are carried out to provide the La Silla observatory with the most advanced instruments. There are also extensive facilities which enable the scientists to analyse their data. In Europe ESO employs about 200 international Staff members, Fellows and Associates; at La Silla about 50 and, in addition, 150 local Staff members.

The ESO MESSENGER is published four times a year: normally in March, June, September and December. ESO also publishes Conference Proceedings, Preprints, Technical Notes and other material connected to its activities. Press Releases inform the media about particular events. For further information, contact the ESO Information Service at the following address:

EUROPEAN
SOUTHERN OBSERVATORY
Karl-Schwarzschild-Str. 2
D-85748 Garching bei München
Germany
Tel. (089) 320 06-0
Telex 5-28282-0 eo d
Telefax (089) 3202362
ips@eso.org (internet)
ESO::IPS (decnet)

The ESO Messenger:
Editor: Marie-Hélène Demoulin
Technical editor: Kurt Kjær

Printed by
Druckbetriebe Lettner KG
Georgenstr. 84
D-80799 München
Germany

ISSN 0722-6691

A. Renzini and L.N. da Costa: The ESO Imaging Survey **87**, 23

S

M. Sarazin: ESO Internal Workshop on Forecasting Astronomical Observing Conditions — 29–30 May 1997. Predicting Observing Conditions at ESO Observatories – Reality and Perspectives **89**, 5
M. Sarazin: Uzbek Astronomy Looking Ahead Towards the Future **89**, 43

M. Sarazin: A Cloudy Night Again? Blame El Niño! A Study of the Impact of El Niño on the Cloud Cover Above ESO Observatories in Chile **90**, 5

S. Savaglio: On the Nature of the High-Redshift Universe **87**, 45
M. Schneermann and M. Groessl: The VLT Mirror Coating Unit Ready for Shipment **88**, 4

D. Silva and P. Quinn: VLT Data Flow Operations News **90**, 12

J. Spyromilio: News from the NTT **87**, 14

J. Spyromilio: News from the NTT **88**, 12

S. Stanghellini, M. Hess, G. Raffi, J.-M. Moresmau, F. Koch, M. Kraus: The M1 Cell – M3 Tower Undergoes Tests in Europe **88**, 1

S. Stanghellini, G. Jander, A. Michel, A. van Kesteren, M. Duchateau, W. Ansorge: The Secondary Unit of the VLT Approaches Delivery **88**, 3

S. Stanghellini: Latest News: The First M2 Unit and Beryllium Mirror Delivered to ESO **90**, 34

J. Storm: 2.2-m Upgrade Plan **87**, 17

T

M. Tarenghi: Paranal, December 1996 **87**, 6
M. Tarenghi: The ESO VLT – Progress Report **90**, 2

V

O. von der Lühe, D. Bonaccini, F. Derie, B. Koehler, S. Lévéque, E. Manil, A. Michel, M. Verola: A New Plan for the VLTI **87**, 8

W

R.M. West: The Time Capsule **87**, 5

R. West and C. Madsen: The Astronomy Online Project **87**, 51

L. Woltjer: Gerhard Bachmann (1931–1996) **87**, 57

Contents

TElescopes and Instrumentation

S. D'Odorico: A Deep Field with the Upgraded NTT	1
M. Tarenghi: The ESO VLT – Progress Report	2
M. Sarazin: A Cloudy Night Again? Blame El Niño! A Study of the Impact of El Niño on the Cloud Cover Above ESO Observatories in Chile	5
NEWS FROM THE NTT: G. Mathys	7

THE LA SILLA NEWS PAGE

C. Lidman: SOFI – Current Status	9
S. Guisard, U. Weilenmann, A. Van Dijsseldonk, H.U. Käufl, J. Roucher: Image Quality of the 3.6-m Telescope (Part VI). Now Diffraction Limited at 10 Microns at the f/35 Focus	9
R. Gredel, S. Guisard, G. Ihle: Image Quality of the 3.6-m Telescope (Part VII). Installation of a Spring System in the 3.6-m M1 Mirror Cell	11
VLT DATA FLOW OPERATIONS NEWS: D. Silva and P. Quinn	12

SCIENCE WITH THE VLT/VLTI

F. Paresce and A. Renzini: The Search for Extrasolar Planets at ESO. Final Report of the ESO Working Group on the Detection of Extrasolar Planets ...	15
Latest News: The First VLT 8.2-m Zerodur Mirror Has Arrived at Paranal	18

REPORTS FROM OBSERVERS

D. Minniti, T.R. Bedding, F. Courbin, B. Sams: Stellar Populations with Adaptive Optics: Four Test Cases	19
E. Molinari, G. Chincarini, A. Moretti, S. De Grandi: The Luminosity Function of Clusters of Galaxies: A 496. New Clues to Cluster Formation and Evolution	23
J. Guibert: From EROS to DUO, ALADIN, GATT and Others: Wide-Field Astronomy	25
D.J. Lennon, S. Mao, J. Reetz, T. Gehren, L. Yan, A. Renzini: Real-Time Spectroscopy of Gravitational Microlensing Events – Probing the Evolution of the Galactic Bulge	30
S. Stanghellini: Latest News: The First M2 Unit and Beryllium Mirror Delivered to ESO	34

OTHER ASTRONOMICAL NEWS

P. Dierickx: Book REVIEW: Reflecting Telescope Optics I (R.N. Wilson)	35
---	----

ANNOUNCEMENTS

CNRS – Observatoire de Haute-Provence and European Southern Observatory: 6th ESO/OHP Summer School in Astrophysical Observations	36
Personnel Movements	36
List of Scientific Preprints (October–November 1997)	36
ESO Director General Receives Honoris Causa Degree	36
Vacancy Notice: 20 Positions for Scientists and Engineers	37

MESSENGER INDEX 1997 (Nos. 87–90)	38
--	----