

IUE SYMPOSIA

Recently two symposia have been held commemorating the completion of IUE's second year of scientific operation. ESA and the Astronomical Institute at Tübingen jointly sponsored The Second European IUE Conference, held at Tübingen on March 26-28.

NASA sponsored The Universe at Ultraviolet Wavelengths: The First Two Years of IUE, which was held at the Goddard Space Flight Center on May 7-9. Both meetings were very successful and included papers with many interesting new results. For the benefit of those who were unable to attend one or both of the symposia, the programs of both meetings are reproduced in the following pages.

Proceedings are to be published later this year for both meetings. The proceedings of the Tübingen meeting will become available from:

Scientific and Technical Publication Branch
ESTEC
Postbox 299
2200 AG Noordwijk
The Netherlands

The proceedings of the Goddard meeting will be announced in "STAR" and will be available from:

NASA Scientific and Technical Information Facility
6371 Elkridge Landing Road
Lithicum, MD 21090
U.S.A.

Albert Boggess

PROGRAM
SECOND EUROPEAN IUE CONFERENCE

Wednesday, March 26, 1980

9:00	Opening	
9:30	INVITED PAPER:	Observations of Comets - J. Rahe
10:15	INVITED PAPER:	Observations of Supernovae - N. Panagia
11:00	coffee break	
11:30	SESSION A1:	Solar System and Interstellar Medium
	SESSION B1:	Ap-stars, RS CVn-stars and Special Objects
1:30	lunch	
2:15	INVITED PAPER:	Mass Loss and Coronae in Late Type Stars - D. Reimers
3:00	INVITED PAPER:	Dwarf Novae - J. Whelan
3:45	coffee break	
4:15	SESSION A2:	Mass Loss, Stellar Chromospheres, Novae
	SESSION B2:	Data Analysis; Interstellar Medium, LMC Stars

Thursday, March 27, 1980

9:15	INVITED PAPER:	Observations of LMC/SMC Stars - B. Savag�
10:00	INVITED PAPER:	Planetary Nebulae - H. Nussbaumer
10:45	coffee break	
11:15	SESSION A3:	Early-type Emission-line Stars, X-ray Sources, etc.
	SESSION B3:	Gas in Globular Clusters, Planetary Nebulae, HII-Regions
1:00	lunch	
2:15	INVITED PAPER:	Observations of Wolf-Rayet Stars - A. Willis
3:00	INVITED PAPER:	X-Ray Binaries - G. Hammerschlag-Hensberge
3:45	coffee break	
4:15	SESSION A4:	T Tauri Stars, Binaries with Hot Companions
	SESSION B4:	Wolf-Rayet Stars; Extragalactic Objects
7:00	Reception	

Friday, March 28, 1980

9:15	INVITED PAPER:	Observations of NGC 4151 and 3C 273 - M. H. Ulrich
10:00	INVITED PAPER:	Observations of QSOs - M.A.J. Snijders
10:45	coffee break	

PROGRAM

SECOND EUROPEAN IUE CONFERENCE

11:15 SESSION A5: Extragalactic Objects
 SESSION B5: Subdwarf OB Stars, He-rich Stars, White Dwarfs,
 Neutron Star

1:00 lunch

2:00 ESA IUE USERS MEETING
 Report on the status of the spacecraft, station,
 image processing, and data bank (by the project staff)
 Discussion of these and other topics of interest.

4:00 End

SECOND EUROPEAN IUE CONFERENCE

SESSION A1: Solar System and Interstellar Medium

Near Simultaneous Observations of the Lyman Alpha Emission from Jupiter and Saturn - K. H. Fricke, et al.

Vertical Distribution of NH₃ in the Upper Jovian Atmosphere from IUE Observations - M. Combes, T. Encrenaz and K. Fricke

Far UV Spectrophotometry of Supernova Remnants
P. Benvenuti, M. Dopita and S. D'Odorico

Abundances in a High-Velocity Interstellar Cloud - D. Gilra, P. R. Wesselius and E. M. Arnal

High Resolution Observations of the Exciting Stars of NGC 2023 and M43 - Interstellar Abundances - D. Gilra, S. Pottasch and E. M. Arnal

Extinction and Scattering by Dust in Ionized Regions from Low Resolution IUE Spectra - D. Gilra, M. Arnal and S. Pottasch

The Distribution of Interstellar C IV in the Galaxy - G. Bromage, A. H. Gabriel and D. W. Sciama

The Ultraviolet Spectrum of the Anomalous EUV-source Halo Star HD 192273 - G. E. Bromage, A. H. Gabriel and D. W. Sciama

IUE Observations of Comet Bradfield - C. Arpigny, et al.

SESSION A2: Mass Loss, Stellar Chromospheres, Novae

Mass Loss Rates from Ultraviolet P Cygni Profiles for O-type Stars in the Open Cluster IC 1805 - G. Burki and F. Llorente de Andres

The Chromosphere of A7V Star α Aql - C. Blanco, S. Catalano and E. Marilli

Chromospheres and Transition Regions in F Dwarfs - M. Saxner

The Chromospheric and Coronal Structure of Two F5 Stars, α CMi (F5IV.V) and α Per (F5Ib) - A. Brown and C. Jordan

The Active Chromosphere of ζ And = HD 4502 - D. Reimers

UV Observations of Chromospheric Activity in the Short Period Eclipsing Binary XY Ursae Majoris - E. H. Geyer and M. Hoffman

The UV Spectrum of WZ Sge at Nova Maximum - M. Friedjung, et al.

The UV Spectrum of Two Old Novae (HR Del and V 603 Aql) - D. Dulcina-Hacyan, et al.

Novae and Related Stars at Quiescence - H. Duerbeck, et al.

IUE Observations of the Star HD 93521 - C. Morrossi and M. Ramella

SECOND EUROPEAN IUE CONFERENCESESSION A3: Early-type Emission-line Stars, X-ray Sources, etc.

Stellar Wind in Be Stars - J. Dachs

UV Observations of 27 CMA, π Agr and 48 Lib - A. E. Ringuelet, J. M. Fontenla and M. Rovira

T_e -structure of the Wind in γ Cass - V. Doazan, et al.

Long-term Changes in Ultraviolet Resonance Lines in γ Cas = H. F. Henrichs and G. Hammerschlag-Hensberge

Variable Wind Velocity in 59 Cyg - V. Doazan, L. V. Kuhi, J. M. Marlborough, T. P. Snow and R. N. Thomas

Ultraviolet Emission Line Spectrum of Peculiar Stars: HD45677 - P. L. Selvelli and R. Stalio

Contemporaneous Ultraviolet Optical and Infrared Observations of HDE 245700/AO535+26 System - F. Giovannelli, et al.

Coordinated Ultraviolet, Optical and Infrared Observations of X Persei - R. Viotti, et al.

Far Ultraviolet Observations of Cyg X-2 - L. Maraschi, E. G. Tanzi and A. Treves

Ultraviolet Spectral Variations in LMC X-4 and SMC X-1 - J. M. Bonnet-Bidaud, et al.

SESSION A4: T Tauri Stars, Binaries with Hot Companions

UV Spectrograms of T Tauri Stars - I. Appenzeller, et al.

Mass Loss from the Interacting Contact Binary SV Cen - H. Drechsel, J. Rahe and B. Wolf

The UV Spectra of the Two Components of the Visual Binary System Δ 199 (HR 5999, A7III-IV and HR 6000, Ap) - M. Hack, P. S. The and H.R.E. Tijn A Djie

The Outside Eclipse UV Spectrum of Zeta Aurigae - R. Faraggiana and M. Hack

Observations of Late Type Stars with 'Hot' Companions - D. Gilra, P. Wesselius and N. Kameswara Rao

Observational Evidence for an Accretion Disk Around the Hot Companion of δ Sge (M 2 II) - D. Reimers and R. P. Kudritzki

The Ultraviolet Spectrum of Mira Ceti - A. Cassatalla, et al.

Simultaneous Observations (IUE, Optical, IR) of V 861 Sco - C. de Loore, et al.

Post Maximum Changes of the EUV Spectrum of the LPV CHI Cygni - A. Cassatella, et al.

SECOND EUROPEAN IUE CONFERENCESESSION A5: Extragalactic Objects

- Observations of the Star-like BL Lac Object OI 090.4 - G. E. Bromage, et al.
- UV Spectroscopy of the Central Regions of Several Active Galaxies - K. Fricke, H. Schleicher and H. Yorke
- The UV Spectra of the FeII Seyfert Galaxies I-Zw-1, II-Zw-136 and Mk 231 - M.A.J. Snijders, et al.
- IUE Observations of X-ray Emitting Seyfert Galaxies - P. Barr, A. J. Willis and R. Wilson
- IUE Observations of Two (Non-Seyfert) Radio Galaxies - M. V. Penston, et al.
- Ultraviolet Spectra of the Twin Quasars 0957 + 561 A,B - P. M. Gondhalekar and R. Wilson
- Ultraviolet Observations of PG 1351 + 64 - L. Maraschi, E. G. Tanzi and A. Treves
- A Study of Absorption Line Systems in High Redshift QSO's with the IUE - M.A.J. Snijders, M. Pettini and A. Boksenberg

SESSION B1: Ap-stars, RS CVn-stars and Special Objects

- Ultraviolet Observations of 3 Bp, Ap stars at High-Galactic Latitude - J. Berger, et al.
- Ultraviolet Variation of the Ap Star 21 COM - M. Gerbaldi, C. Megessier and N. Morguleff
- The UV Resonance Lines of HD 175362, a Helium Variable with a Large Magnetic Field - K. D. Rakos
- FeII in the IUE Spectra of Emission Line Stars - R. Viotti, et al.
- Simultaneous Spectroscopic and Photometric Observations of Zeta 1 Scorpii (HD152236) A. Heck, et al.
- Pulsation of the Outer Atmosphere of BW Vul - M. Burger, et al.
- Mass Loss and Mass Transfer in the Binary Star HD 41335 - F. Paterson-Beeckmans
- Chromospheric Plages on II Pegasi (HD224085) - M. Rodono, G. Romeo and G. Strazzula
- Contemporaneous Ultraviolet and Optical Observations of Sigma Gem: a RS CVn-Type Star - F. Giovannelli, et al.

SESSION B2: Data Analysis; Interstellar Medium, LMC Stars

- Parasite Light Effects in the IUE Low Resolution Spectra - L. Crivellari and C. Morossi
- An Improved IUE Image Processing System
- The Case of Absorption Lines in High Dispersion Spectra - C. Laurent, J. Paul and A. Vidal-Madjar

SECOND EUROPEAN IUE CONFERENCE

UV Flux in the Central Region of the Galaxy M 31 - J. M. Deharveng

The UV Spectrum of the Elliptical Galaxy NGC 3379 - F. Bertola, M. Capaccioli and J. B. Oke

Observations of NGC 5253 - G. C. Perola and M. Tarenghi

Observations of Two Narrow Emission Line Galaxies, NGC 4507 and 5506 - J. Bergeron, T. Maccacaro and G. C. Perola

IUE Spectra of Clumpy Irregular Galaxies - P. Benvenuti, C. Casini and J. Heidman

SESSION B5: Sub-dwarf OB Stars, He-rich Stars, White Dwarfs, Neutron Stars

The Nitrogen and Silicon Abundance of SdO-stars - K. Simon, et al.

Non-LTE Analysis of the SdO-star BD+75^o325 - R. P. Kudritzki, et al.

The Carbon Abundance of SdO-stars - J. Cruschinske, et al.

The Far Ultraviolet Spectrum of the OB-type Subdwarf HD 149 382 - B. Baschek, M. Scholz and R. P. Kudritzki

The Far Ultraviolet Spectrum of the B-type Subdwarf - B. Baschek, M. Scholz and R. P. Kudritzki

The Ultraviolet Spectrum of Hot Subdwarfs - L. Rossi, et al.

OB-observations of Two Extremely Helium-rich Stars - U. Heber and D. Schonberner

A Strong Absorption Feature Near 1900 \AA in the Spectrum of the C₂ White Dwarf LP 145-141 - D. Koester

IUE Observations of the Crab Pulsar NP 0532 - P. Benvenuti, et al.

SECOND EUROPEAN IUE CONFERENCE

High Velocity Gas in Supernova Remnants - P. M. Gondhalekar and A. P. Phillips

High Velocity Components Towards Some Galactic Stars - D. Giaretta, et al.

Coordinated Ground-based and IUE Observations of Hot Stars in the Magellanic Clouds - F. Macchetto, P. Benvenuti and S. D'Odorico

High Dispersion Studies of Interstellar LINES in the Space of LMC Stars - P. M. Gondhalekar, et al.

IUE Observations of HD 269546 - M. Grewing and E. Schulz-Lupertz

Ultraviolet Spectra of HII Regions in Extragalactic Systems - P. M. Gondhalekar, et al.

Ultraviolet Spectrum of the Extragalactic HII Region Tolollo 1924-42 (Z=0.01) - R. F. Carswell, et al.

The Exciting Stars of Giant HII Regions in M33 and M101 - M. Rosa

SESSION B3: Gas in Globular Clusters, Planetary Nebulae, HII-regions

IUE Observations of Globular Clusters - V. Caloi, et al.

A Very Rapidly Expanding Gas in the Core of the Globular Cluster NGC 6624 - N. Bel, R. Roy and J. Clavel

C, N, and O in the Planetary Nebula NGC 2371/2 - S. Pottasch, et al.

IUE Observations of Planetary Nebulae: Nebular Continuum and Mass Loss from Central Stars - P. Benvenuti and M. Perinotto

High Dispersion EUV Observations of Planetary Nebulae - J. Koppen and R. Wehrse

A Search for Absorption in the Fourth Positive System of CO in the Spectrum of the Planetary Nebula IC 418 - J. Clavel and D. Flower

Ultraviolet Extinction in the Orion Nebula - P. Patriarchi and M. Perinotto

IUE Observations of HII Regions in the Magellanic Clouds - D. Gilra, S. Pottasch and M. Dennefeld

SESSION B4: Wolf-Rayet Stars; Extragalactic Objects

On the Mass Loss Rate of the WC9 Star HD 164270 - K. A. van der Hucht and P. S. Conti

A Revised Mass Loss Rate Scale for WR Stars - M. J. Barlow, L. J. Smith and A. J. Willis

Ultraviolet Energy Distribution of Wolf-Rayet Stars - W. Schmutz and L. J. Smith

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

11:00 - 12:30 Young Intrinsic Variables (20^m): G. F. Gahm
 Highly Evolved Stars (20^m): S. R. Heap
 Interacting Binary Systems (20^m): M. J. Plavec

12:30 Group Photograph - Building 8 Front Steps

LUNCH Building 1, Building 21 Cafeterias

CONTRIBUTED PAPERS:

	Session A	Session B
	Building 3 Auditorium	Building 8 Auditorium
13:30 - 15:15	3. F through M Stars	Interstellar Medium
15:45 - 17:45	4. F through M Stars (cont.)	Nebulae
	Place - Goddard Recreation Center	
18:00 - 20:00	Cocktail Hour/Steak Dinner	
20:00 - 22:00	IUE Follow On	Chairman: A. Boggess

May 9

CONTRIBUTED PAPERS:

	Session A	Session B
	Building 3 Auditorium	Building 8 Auditorium
9:00 - 10:30	5. Binaries	Data Reduction/Techniques and Problems
10:45 - 12:15	6. Binaries/Evolved Objects	Nebulae (cont.)
LUNCH	Building 1, Building 21 Cafeterias	
	Place - Building 3 Auditorium; Chairman - A. Boggess	
13:00 - 15:00	5 ^m Reports from Session Chairmen	
	Outlook for Ultraviolet Astronomy (30 ^m): E. Böhm-Vitense	
	Closing Remarks: A. Boggess	
15:30 - 16:30	Goddard Scientific Colloquium	
	R. Wilson: "The Universe at Ultraviolet Wavelengths: The First Two Years of IUE"	

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

Sessions A are in Building 3 Auditorium

Sessions B are Building 8 Auditorium

The poster papers are displayed in the lobby to Building 8 Auditorium. We ask that posters be manned during the break on the day on which they are scheduled.

Session 1A: Solar System

May 7 13:30 - 15:00 Chairman: J. Rahe

Spatial Imaging of UV Emission from Jupiter and Saturn:
J. T. Clarke, H. W. Moos

Observations of Polar Aurora on Jupiter:
J. T. Clarke, H. W. Moos, S. K. Atreya, A. L. Lane

Observations of the Io Plasma Torus:
H. W. Moos, J. T. Clarke, S. K. Atreya, A. L. Lane

Observations of the Galilean Satellites with IUE:
D. L. Matson, A. L. Lane, R. M. Nelson, T. V. Johnson, F. P. Fanale

High Resolution Observation of the Venus Dayglow Spectrum 1250 - 1430 Å:
S. T. Durrance, R. R. Conway, C. A. Barth, A. L. Lane

Seasonal Observations of Mars:
R. R. Conway, S. T. Durrance, C. A. Barth, A. L. Lane

Observations of Uranus with the International Ultraviolet Explorer:
J. Caldwell, T. Owen, A. R. Rivolo, V. Moore

Session 2A: Solar System (cont.)/Extragalactic Objects

May 7 15:30 - 17:30 Chairman: T. P. Stecher

Analysis of IUE Observations of CS in Comet Bradfield (1979 λ):
W. M. Jackson, J. Halpern, P. D. Feldman, J. Rahe

Water Production Models for Comet Bradfield:
H. A. Weaver, P. D. Feldman, M. C. Festou

Fluorescence Equilibrium in the Ultraviolet Spectra of Comets Seargent (1978m) and Bradfield (1979 λ):
M. F. A'Hearn, D. G. Schleicher, B. Donn, W. Jackson

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

The UV Spectrum of Elliptical Galaxies:
G. Bruzual A., H. Spinrad

Ultraviolet Observations of Type 1 Seyfert Galaxies:
C. C. Wu, A. Boggess, T. R. Gull

UV Variability of the Seyfert I Galaxies II Zw2 and MK 509:
J. P. Huchra, M. J. Geller

Multifrequency Observations of BL Lac Objects and Seyfert Galaxies:
J. N. Bregman, A. E. Glassgold, P. J. Huggins

IUE Observations of Three Active Galaxies Not of Seyfert Class 1:
M. V. Penston, R. Fosbury, M. A. J. Snijders, A. Boksenberg, J. Clavel

Session 3A: F through M Stars

May 8 13:30 - 15:15 Chairman: R. F. Wing

Ultraviolet Spectral Classification of Solar-Type Stars:
R. F. Garrison

IUE Observations of M Dwarf Stars:
M. S. Giampapa, J. L. Linsky, S. P. Worden, P. L. Bornmann

IUE Spectra of F and Late A Stars:
J. L. Linsky, N. C. Marstad

The Structure of Chromospheres Around Late-Type Giants and Supergiants:
A. Brown, C. Jordan

Chromospheric and Transition Layer Emission for Stars with Different
Metal Abundances:
E. Böhm-Vitense

UV Chromospheric and Circumstellar Diagnostic Features Among F-Supergiant
Stars:
S. P. Worden, R. E. Stencel

IUE Observations of the Chromospheric Lines of α Tau (K5 III) in the
Extreme Ultraviolet Spectral Region:
K. S. Krishna Swamy and S. P. Tarafdar

Poster:

High Resolution, Absolute Flux Profiles of the Mg II h & k Lines in
Stars of Spectral Type F8 to M5:
R. E. Stencel

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUESession 4A: F through M Stars (cont.)

May 8 15:45 - 17:45 Chairman: J. L. Linsky

IUE-Ultraviolet and Optical Chromospheric Studies of Late-Type Giants in the Hyades Cluster:

S. L. Baliunas, L. Hartmann, A. K. Dupree

Chromospheres and Coronae in W UMa Stars:

A. K. Dupree, S. Preston

Notes on Early-Type Components of W Cep, o Cet, CH Cyg, AR Mon, BL Tel:

R. F. Wing, K. G. Carpenter

IUE Observations of RW Hya (g M7 + pec):

M. Kafatos, A. G. Michalitsianos, R. W. Hobbs

IUE Observations of Circumstellar Emission from the Late Type Variable

R AQR (M7 + pec):

R. W. Hobbs, M. Kafatos, A. G. Michalitsianos

IUE Observations of Two Late Type Stars BX Mon (M4 + pec) and TV Gem (M1 Iab):

A. G. Michalitsianos, M. Kafatos, R. W. Hobbs

The Eclipsing Binary System Zeta Aurigae:

R. D. Chapman

Visible-band and IUE Observations of μ Sagittarii:

J. D. Dorren, E. F. Guinan, E. M. Sion

Session 5A: Binaries

May 9 9:00 - 10:30 Chairman: D. E. Weistrop

IUE Spectra of a Flare in the RS CVn System HR 5110

T. Simon, J. L. Linsky, F. H. Schiffer

Analysis of the Symbiotic Star AG Pegasi:

C. D. Keyes, M. J. Plavec

IUE Observations of Symbiotic Stars:

J. Sahade

White Dwarf Companions of Ba II Stars:

E. Böhm-Vitense

Ultraviolet Spectroscopy of Old Novae and Symbiotic Stars:

D. L. Lambert, M. H. Slovak, G. A. Shields, G. J. Ferland

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

IUE and Other New Observations of the Slow Nova RR Tel:
 M. V. Penston, P. Benvenuti, A. Casettalla, J. Clavel, A. Heck,
 P. Selvelli, D. Ponz, F. Macchetto, C. Jordan, N. Cramer, F. Rufener,
 J. Manford

Posters:

Ingress Observations of the 1980 Eclipse of the Symbiotic Star CI Cygni:
 R. E. Stencel, A. A. Boyarchuk, A. G. Michalitsianos

On the Nature of the Nova-like Variable CD -42° 14462:
 E. F. Guinan, E. M. Sion

Orbital Phase Dependent IUE Spectra of the Nova-like Binary TT Ari:
 E. F. Guinan, E. M. Sion

Session 6A: Binaries (cont.)/Highly Evolved Stars

May 9 10:45 - 12:15 Chairman: M. J. Plavec

Mass-Loss from Plaskett's Star (HD 47129):
 S. R. Heap

Observations of Cataclysmic Variables with IUE:
 L. Hartmann, J. Raymond

Coordinated IUE, Einstein and Optical Observations of Accreting Degenerate
 Dwarfs:
 G. Fabbiano, J. E. Steiner, L. Hartmann, J. Raymond

Cyclotron Emission from AM Herculis:
 G. Chanmugam

Observations of Supernova 1979 in M 100:
 N. Panagia

Horizontal Branch Stars, Galactic and Magellanic Cloud Globular Clusters:
 K. S. de Boer

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUESession 1B: O through A Stars

May 7 13:30 - 15:15 Chairman: M. P. Savedoff

Mass Loss from the Central Stars of Planetary Nebulae:
S. R. Pottasch, R. Gathier

Mass Loss Rates from Early-Type Stars:
P. S. Conti, C. D. Garmany

IUE Observations of Variability in Winds from Hot Stars:
C. A. Grady, T. P. Snow, Jr.

The Auger Enhancement of High Ionization Stages in Winds of B Supergiants:
J. P. Cassinelli

IUE and Ground-Based Observations of Mass Loss in the Magellanic Clouds:
F. Macchetto, P. Benvenuti, S. D'Odorico, N. Panagia

Absolute Energy Curves from Late B-Type Supergiants:
A. B. Underhill

Proposed Three-Phase Modeling of Be Stars from Combined UV and Visual
Observations:
V. Doazan, R. N. Thomas et al.

Poster:

Observations of the Gas Stream in the Mass-Transfer Binary HR 2142:
G. J. Peters

Session 2B: O through A Stars (cont.)

May 7 15:45 - 17:45 Chairman: R. F. Garrison

The UV Resonance Lines of Three Hot Ap Stars HD 133029, HD 219749 and
HD 175362:
K. D. Rakos

Search for Long and Short Term Variations in the Spectrum of a Centauri:
R. P. Fahey

The Relation Between Photometric and Spectrum Variability of the Magnetic
Ap Stars α^2 CVn and HD 23633:
D. S. Leckrone

Pulsation of the Outer Atmosphere of BW Vul:
M. Burger, C. de Jager

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

The Ultraviolet Variability of the T Tauri Star RW Aurigae:
C. L. Imhoff, M. S. Giampapa

IUE Observations of SX Phoenicis:
C. Harvel, J. Stock, S. Sofia

IUE Observations of Blue Halo Stars:
M. Hack, R. Stalio

Emission/Absorption Fe II Spectrum in HD 45677:
R. Stalio, P. L. Selvelli

Posters:

Line Strength Variations in β Cephei:
D. Fischel, W. M. Sparks

The Detection of Companion Stars to Cepheid Variables Eta Aquilae and
T Monocerotis:
J. T. Mariska, G. A. Doschek, U. Feldman

Session 3B: Interstellar Medium

May 8 13:30 - 15:00 Chairman: L. H. Aller

Interstellar Abundance Determination Using IUE Data:
C. Joseph, T. P. Snow, Jr.

Structural Comparisons Between Optical and Ultraviolet Interstellar Lines
Found in the Eta Carinae Nebula:
J. E. Hesser, N. R. Walborn

A Search for Interstellar Molecules in the Spectra of Highly Reddened Stars:
P. Lien, R. M. Crutcher, L. E. Snyder, D. Buhl, B. Donn, L. J. Stief,
A. M. Smith

Unusually Strong CI, CI* and CI** in a Compressed Cloud in the Vela
Remnant Region:
J. Silk, G. Wallerstein, E. M. Leep, E. B. Jenkins

IUE Observations of Supernova Remnants:
J. C. Raymond

Surface Mapping of Selected Regions in the Orion Nebula:
P. M. Perry, B. E. Turnrose, C. A. Harvel

Posters:

Ultraviolet Absorption by Interstellar Gas at Large Distances from the
Galactic Plane:
B. D. Savage, K. S. de Boer

IUE Observations of the CO Molecule ψ Per (B5 Ve) and its Implication:
S. P. Tarafdar, K. S. Krishna Swamy

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUESession 4B: Nebulae

May 8 15:45 - 17:30 Chairman: R. C. Bohlin

Electron Densities for Six Planetary Nebulae and HM SGE Derived from
the CIII] λ 1907/1909 Ratio:
W. A. Feibelman

Silicon and Magnesium in Planetary Nebulae:
J. P. Harrington, P. A. Marionni

Elemental Abundances in High Excitation Planetary Nebulae:
P. A. Marionni, J. P. Harrington

IUE Observations of NGC 3918 and NGC 5315:
S. Torres-Peimbert, M. Peña and E. Daltabuit

Analyses of High Excitation Planetary Nebulae:
L. H. Aller, C. D. Keyes

Discovery of H_2^+ in Planetary Nebulae:
S. R. Heap, T. P. Stecher

Continuous Spectrum Observed in Planetary Nebulae:
S. R. Pottasch, D. Gilra, A. Natta, A. Preite-Martinez, P. R. Wesselius

Posters:

An Atlas of Emission Line Fluxes for Twenty-Four Planetary Nebulae in
the 1150 - 3200 Å Region:
A. Boggess, W. A. Feibelman, C. W. McCracken

The Carbon Abundance in Two H II Regions of the Small Magellanic Cloud:
R. J. Dufour, R. J. Talbot, G. A. Shields

Session 5B: Data Reduction: Techniques and Problems

May 9 9:00 - 10:45 Chairman: J. P. Cassinelli

Extracting Spatial Information from Large Aperture Exposures of Diffuse
Sources:
J. T. Clarke, H. W. Moos

Results of Basic Improvements to the Extraction of Spectra from IUE Images:
D. Lindler, R. Bohlin

Washburn Extraction and Width of IUE Point-Spread Function:
K. S. de Boer, J. Koorneef, M. Meade

GODDARD SYMPOSIUM: THE FIRST TWO YEARS OF IUE

Analysis of IUE Spectra using the Interactive Data Language:
C. L. Joseph

Problems and Programming for Analysis of IUE High-resolution Data
for Variability:
C. A. Grady

Effects of Temperature Fluctuations on IUE Data Quality:
R. Thompson, B. Turnrose, R. Bohlin

Improvements to the Accuracy of the IUE Wavelength Scales:
R. Turnrose, C. Harvel, R. Bohlin

Session 6B: Nebulae (cont.)

May 9 11:00 - 12:15 Chairman: A. V. Holm

Observations of O-type stars associated with the Cepheus CO Complex
and the S155 Nebula:
M. Perinotto, N. Panagia

The Young Of Star HD148937 and its Associated Interstellar Bubble-
H II Region:
F. C. Bruhweiler, T. R. Gull

Superbubbles:
T. R. Gull, F. C. Bruhweiler, M. Kafatos, S. Sofia

Preliminary Report on IUE Spectra of the Crab Nebula:
K. Davidson, T. R. Gull, T. P. Stecher, S. Maran, M. Kafatos, V. Trimble

IUE Observations of the Crab Pulsar:
P. Benvenuti, L. Bianchi, A. Cassatella, J. Clavel, J. Darius, A. Heck,
F. Macchetto, M. J. Penston, P. L. Selvelli, J. Zamorana