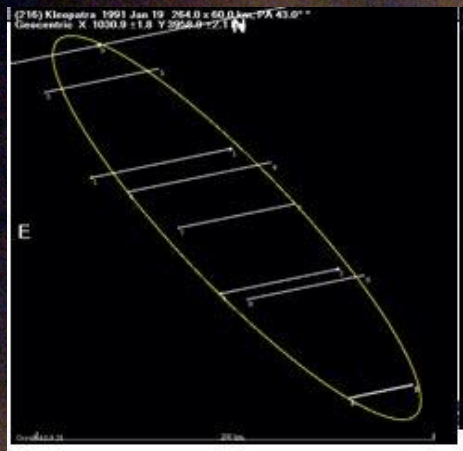
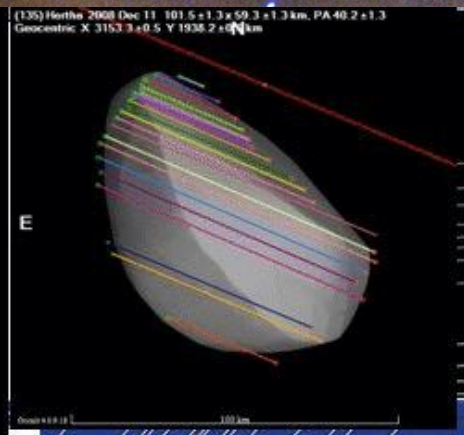
Memories of ESOP V

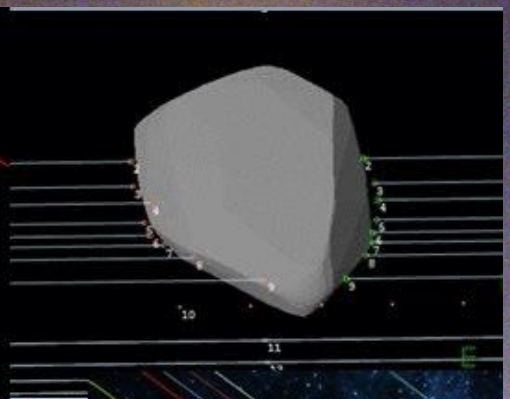
Ryby
zdjęcie wykonał Mieczysław Borkowski

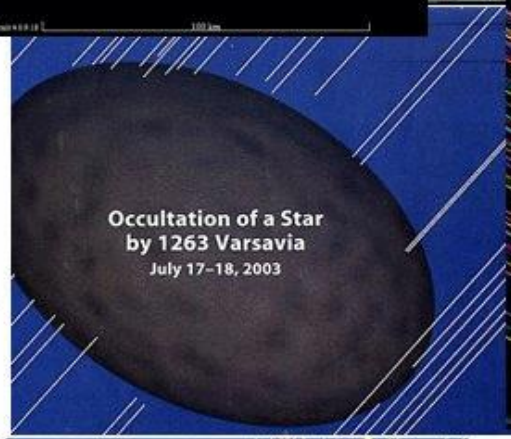
At the beginning, IOTA was only in Texas.

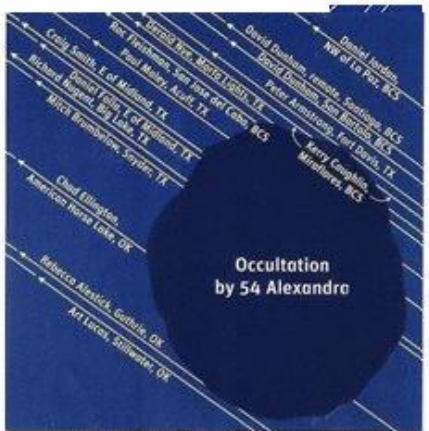
The father of contemporary observers David Dunham, began his observations in 1962.

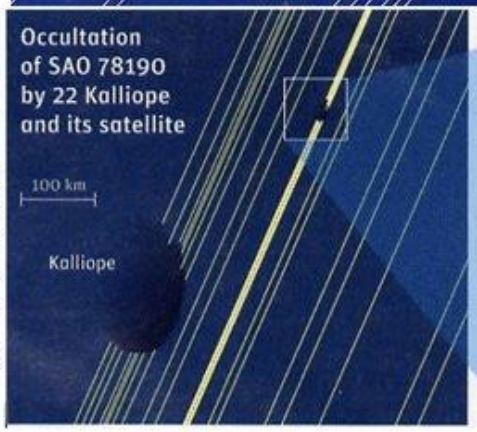


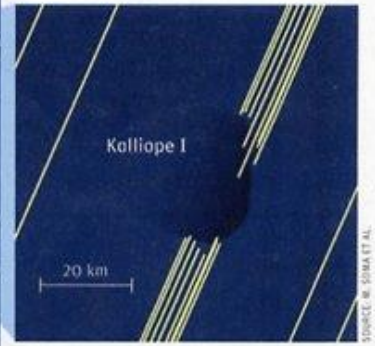












2013

Memories of ESOP V

Ryby
zdjęcie wykonał Mieczysław Borkowski

Today, IOTA is an international organization

IOTA Main Site

IOTA/European Section

IOTA/Middle East Section

IOTA/LIADA Section

IOTA AUSTRALASIA

Occult v4.6.0

http://www.lunar-occultations.com/iota/occult4.htm

Predictive Coverage Software by David Herald (Famous)

Memories of ESOP V

Ryby
zdjęcie wykonał Mieczysław Borkowski

The birth of IOTA ES in 1983.

INTERNATIONAL OCCULTATION TIMING ASSOCIATION
EUROPEAN SECTION

ESOP I, 1981 XI 07, Hanower.
ESOP II, 1983 III 19-20, Hanower.
ESOP III, 1984 VIII 31 - IX 05, Valaske Mezirici, CSSR.
ESOP IV, 1985 VIII 24-25, Hove, Belgia.
ESOP V, 1986 VIII 29 – IX 02, Warszawa-Łódź.
…
ESOP XXXVIII, 2019 VIII 30 - IX 03, Paryż.

Journal for Occultation Astronomy (JOA)
JOA Journal & ON (ON)

Memories of ESOP V

Ryby
zdjęcie wykonał Mieczysław Borkowski

The birth of ESOP V

Occultation Newsletter

Volume III, Number 16 June, 1986

Occultation Newsletter is published by the International Occultation Timing Association. Editor and compositor: H. F. DeBoll; 6 N 106 White Oak Lane; St. Charles, IL 60174; U.S.A. Please send editorial matters, new and renewal memberships and subscriptions, back issue requests, address changes, graze prediction requests, reimbursement requests, special requests, and other IOTA business, but not observation reports, to the above.

FROM THE PUBLISHER

This is the second issue of 1986. It is the final issue of Volume 3.

When renewing, please give your name and address exactly as they appear on your mailing label, so that we can locate your file; if the label should be revised, tell us how it should be changed.

If you wish, you may use your VISA or MasterCard for payments to IOTA; include the account number, the expiration date, and your signature. Card users must pay the full prices. If paying by cash, check, or money order, please pay only the discount prices.

	Full price	Discount price
IOTA membership dues (incl. o.v. and any supplements)		
for U.S.A., Canada, and Mexico	$11.46	$11.00
for all others (to cover higher postage costs)	16.67	16.00
Occultation Newsletter subscription[1] (1 year = 4 issues)		
by surface mail		
for U.S.A., Canada, and Mexico[2]	7.28	7.00
for all others	7.12	6.84
by air (AO) mail[3]		
for area "A"[4]	8.91	8.56
for area "B"[5]	10.32	9.92
for all other countries	11.75	11.28
Back issues of o.v. by surface mail		
o.v. 1 (1) thru o.v. 2 (13), each	1.04	1.00
o.v. 2 (14) thru o.v. 3 (13), each	1.46	1.40
o.v. 3 (14) and later issues, each	1.82	1.75
Back issues of o.v. by air (AO) mail[3]		
o.v. 1 (1) thru o.v. 2 (13), each	1.51	1.45
o.v. 2 (14) thru o.v. 3 (13), each	1.93	1.85
o.v. 3 (14) and later issues, each	2.29	2.20
(There are 16 issues per volume, all still available)		
Although they are available to IOTA members without charge, non-members must pay for the following items:		
Local circumstance (asteroidal appulse) predictions (entire current list for your area)	1.04	1.00
Graze limit and profile prediction (each graze)	1.56	1.50
Papers explaining the use of the predictions	2.60	2.50

IOTA NEWS

David W. Dunham

The fourth annual meeting of IOTA was held at the Prude Ranch, Fort Davis, Texas, on Saturday morning, May 10th, the last day of the Texas Star Party. The agenda of the meeting was primarily scientific, covering eclipses, occultations by comets and asteroids, and video recordings of lunar grazing occultations, especially one of Sigma Scorpii in Mexico on March 30th. These topics are covered in separate articles in this issue. The only other presentation was by Eugene Lucas, who described his and Peter Manly's excellent video work with the Saguaro Astronomy Club in Phoenix, AZ. He also showed Gerald Rattley's observed profile from the graze of Delta Scorpii observed at Asher, AZ, last July; the vertical separation of the two components was fortuitously almost exactly three times the separation between the planned stations. Gene also showed how their club uses a bicycle wheel with a counter, that can be purchased from surveying supply stores for about $100, for measuring distances of graze stations along straight Arizona roads.

Although over 300 came to this year's Star Party, we were disappointed that less than 20 came to the IOTA meeting. Most of those at the Star Party came to observe primarily deep sky objects, and stayed up most of the previous night, when the sky was very clear. It is an excellent observing site, offering memorable views of the zodiacal light, Milky Way, and Halley's Comet, which was still an easy naked-

E.S.O.P. V

Marek Zawilski

The Fifth European Symposium on Occultation Predictions will be held in Poland from August 29 to September 3. Sessions will be held in Warsaw on August 29-30 and in Łódź on August 31. The facultative part of the symposium will take place in Warsaw on September 1-3. Those interested in attending should write me at: ul. Julianowska 5 7 m.369; 91-473 Łódź; Poland.

GRAZING OCCULTATION CORRECTION REMINDER

David W. Dunham

Graze observers are reminded that corrections should be applied to IOTA's predictions, as described in o.v. 3 (13), 276. The corrections described there have not been applied to the predictions for 1986; they may be applied for 1987. Most important during the next few months is the 0".3 northward shift that should be applied to all northern-limit grazes of northern-declination stars (generally those with Z.C. numbers less than 1600). The correction for southern-limit Cassini-region grazes normally affects only a few grazes that occur from November through March.

GRAZING OCCULTATIONS

Don Stockbauer

Reports of successful lunar grazing occultations should be sent to me at 2846 Mayflower Landing; Webster, TX 77598; U.S.A. Also sending a copy to ILOC is greatly appreciated; their address is International Lunar Occultation Centre; Geodesy and Geophysics Division; Hydrographic Department; Tsukiji-5, Chuo-ku; Tokyo, 104 Japan.

Several items on the graze report form are in need of clarification; papers describing the use of the forms in detail are available from me upon request. The "PLACE NAME" is the village or other prominent landmark closest to the point of observation. Give the name of the city in which you live only if you observed from home, or if it is closer than any other village. For "ADDRESS" put your complete mailing address; include your name if you are not the only observer listed on the back of the form, or if you are not the graze expedition leader specified on the back of the form. Please report the year a USGS map was photorevised, not its original year. Percent sunlit (% Snl) must have a + or - following the numeric value; + means waxing, and - means waning. Cusp angle (C.A.) needs an N or S following the value, for north or south (rarely an E or W is needed

Yr	Mo	Dy	UT	Star Number	Mag	% Snl	CA	Location	# Sta	# Tm	S	Ap Cm	Organizer	C_{St}	WA	b
84	04	07	07	7772	8.5	33+	N	Poltava, Ukraine	1	5		20	B. F. Sincheskul			
84	05	05	10	30	3.2	21+	-S	Kiev, Ukraine	8	26		8	Alexander Osipov			
85	12	19	12	8607	7.3	53+	21S	Welcome Cr,Austrl	3	10	1	20	Dennis Lowe	57	158	36
85	12	21	10	9850	8.6	69+	18S	Lissie, TX	3	21	1	20	Donald L. Oliver	25	160	20
85	12	21	10	9871	8.5	69+	14S	Glen Flora, TX	2	19	1	20	Donald L. Oliver	25	165	19
86	01	15	14	6794	8.8	23+	16S	Worth, IL	1	6	1	15	Robert H.Hays,Jr.	35	166	50
86	02	19	08	44	5.7	71+	10S	Reynolds, NE	1	1	3	15	Richard P. Wilds		173	-51
86	03	15	04	07	7.8	18+	4S	Rugeley, TX	1	1	1	32	Don Stockbauer		174	-16
86	03	17	06	49	7.2	34+	-2S	Jellico, TN	1	10	1	20	Jim Stamm		179	-40
86	03	17	07	80	6.8	43+	2S	W.Springfield, MA	1	6	2	20	Phil Dombrowski		176	
86	03	21	07	9920	8.8	73+	9N	Point Barrow, TX	1	4	1	20	Don Stockbauer	1N	12	-66
86	03	30	23	49	3.1	76-	15S	S.Jos D.Cabo, Mex	2	27	1	9	David Dunham		199	47
86	04	01	26	77	6.8	54-	6S	Aberdeen, MD	1	1	1	20	Jay Miller		187	71
86	04	14	07	6945	7.7	20+	9N	Valyermo, CA	1	8	1	20	David Paul Werner	6N	5	-48
86	04	15	07	7639	8.3	27+	9N	Bull Run, VA	1	1	2	20	David Dunham	N	7	-55
86	04	18	12	90	6.8	57+	12N	Nashville, TN	3	10	2	8	Michael Crist	5N	13	-64
86	04	24	15	8378	8.3	OE	26U	Malabar Jnc., NSW	1	4	1	20	Greg Hayward		20	0
86	05	13	07	8506	9.0	15+	13N	Alief, TX	1	2	1	20	Donald L. Oliver	5S	8	-59
86	05	19	11	8987	8.2	72+	14N	Columbia, MD	1	1	3	25	Terry Losonsky		17	-33
86	05	24	23	66	1.2	100-	-37S	Spring Mtn., OH	2	8	1	13	David Dunham		182	53
86	05	24	23	66	1.2	100-	-35S	Lyndon, KS	1	2	3	15	Richard P. Wilds		186	53

SAO 128607, observed at Welcome Creek, was reported on an IOTA/ILOC form slightly modified by the Royal Astronomical Society of New Zealand. It only lists the RASNZ as recipient; are copies always forwarded to both IOTA and ILOC?

In my opinion, it is much better to continue observations during a time-signal fadeout than to stop, deal with the problem, and chance missing events. Most tape recorders run quite uniformly while recording, and thus interpolation can be performed for the fadeout period. The tape can be analyzed for linearity during reduction; even if it is not linear, data fitting will establish the maximum error. In such a situation, a long period of time signals

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E.S.O.P. V

Marek Zawilski

The Fifth European Symposium on Occultation Predictions will be held in Poland from August 29 to September 3. Sessions will be held in Warsaw on August 29-30 and in Łódź on August 31. The facultative part of the symposium will take place in Warsaw on September 1-3. Those interested in attending should write me at: ul. Julianowska 5 7 m.369; 91-473 Łódź; Poland.

Memories of ESOP V

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ESOP V, in Poland - in Warsaw and Lodz.

Proceedings at CAMK

Sightseeing:

Visiting the Astronomical Observatory in Ostrowik,

Visiting the Sanctuary in Niepokalanów,

Visiting the Fryderyk Chopin's Museum in Żelazowa Wola,

Visiting the Museum of the History of the City of Lodz

Visiting the Planetarium in Piotrków Trybunalski,

Visiting the Lodz Planetarium and Astronomical Observatory.

Memories of ESOP V

Ryby
zdjęcie wykonał Mieczysław Borkowski

1. **Eberhard Bredner** (KFU): Raport z ESOP IV, Antwerpia, 1985.
2. **Charles Herold** (USA): Informacje IOTA.
3. **Peter Lipski** (NRD): Raport z obserwacji zakryć gwiazd, wykonanych w NRD w latach 1984 – 1985.
4. **Marek Zawilski** (PRL): Raport z obserwacji, wykonanych przez członków SOPiZ PTMA w latach 1984 – 1985.
5. **Roman Fangor** (PRL): Metody utrzymywania służby czasu w SOPiZ PTMA.
6. **Mirosław Kubiak** (PRL): Zasada Macha w odniesieniu do stuletniego opóźnienia ruchu obrotowego Ziemi.
7. **Dietmar Buttner** (NRD): Problemy pracy ILOC.
8. **Eberhard Bredner** (RFN): I0TA-ES efemerydy całkowitych i brzegowych zakryć gwiazd przez Księżyc, profile brzegu Księżyca.
9. **Marek Zawilski** (PRL): Ocena poprawności obserwacji zakryć gwiazd przez Księżyc na podstawie zestawienia redukcji, obliczonych przez ILOC.
10. **Agnieszka Włodarczyk** (PRL): Organizacja i działalność Planetarium i Obserwatorium m. Łodzi.
11. **Bohumil Maleček** (CSRS): Problematyka obserwacji zakryć gwiazd przez planety.
12. **Ladislav Dubny** (CSRS): Zakrycia małych obiektów przez Księżyc obliczenia prążków dyfrakcyjnych (na ZX Spectrum 48 kB).

Lista referatów, wygłoszonych
na ESOP V
(w kolejności wygłaszania)

1. Eberhard Bredner (RFN) : Raport z ESOPIV , Antwerpia, 1985.
2. Charles Herold (USA): Informacje IOTA
3. Peter Lipski (NRD) : Raport z obserwacji zakryć gwiazd, wykonanych w NRD w latach 1984 - 1985
4. Marek Zawilski (PRL) : Raport z obserwacji, wykonanych przez członków SOPiZ PTMA w latach 1984-1985
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6. Mirosław Kubiak (PRL) : Zasada Macha w odniesieniu do stuletniego opóźnienia ruchu obrotowego Ziemi
7. Dietmar Büttner (NRD) : Problemy pracy ILOC
8. Eberhard Bredner (RFN) : IOTA - ES : O.M's, efemerydy całkowitych i brzegowych zakryć gwiazd przez Księżyc, profile brzegu Księżyca
9. Marek Zawilski (PRL) : Ocena poprawności obserwacji zakryć gwiazd przez Księżyc na podstawie zestawienia redukcji, obliczonych przez ILOC
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12. Ladislav Dubny (CSRS) : Zakrycia małych obiektów przez Księżyc - obliczenia prążków dyfrakcyjnych (na mikrokomputerze ZX Spectrum 48 kB)

Opracował : Sławomir Kruczkowski

List of papers

Memories of ESOP V

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The subject matter of the papers at the CAMK concerned:
the observation of stars' covered by the Moon and asteroids,
the reduction of observations in Tokyo by the International Lunar Occultation Center,
new observation techniques,
the calculation of ephemerides,
the determination of geographical coordinates of the place of the observation,
the recording of the video record of the phenomenon,
the use of microcomputers to simulate phenomena.

The second part of the symposium took place at the Planetarium and the Astronomical Observatory in Łódź. An equipment and microcomputer programs have been demonstrated.

At the end, the discussion and summary part of ESOP V was held.

Centrum Astronomiczne
im. Mikołaja Kopernika
Polskiej Akademii Nauk

52°12′47,3″N 21°04′04,9″E

Memories of ESOP V

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Stay of ESOP V participants in the planetarium in Lodz

Memories of ESOP V

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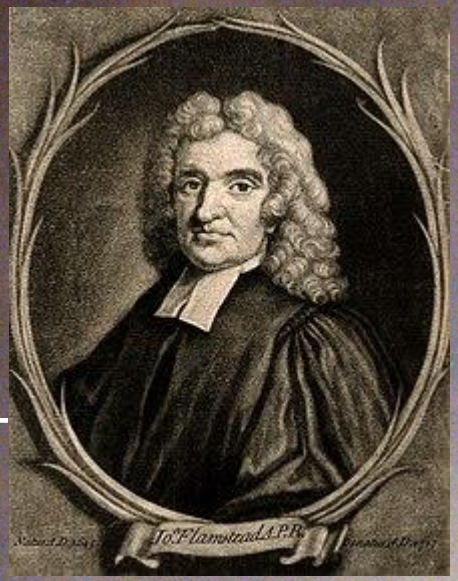
The star is always the first and only 5.71 mage:

96 Piscium
HP 3765
HR 222
Wolf 25
HD 4628
SAO 109471
XZ 1035
XC 104



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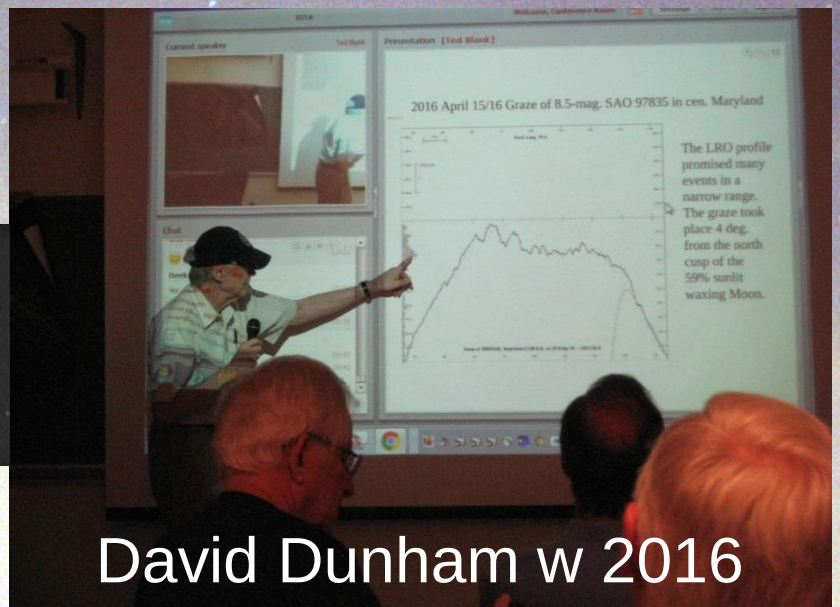
Joan Dunham



David Dunham w 2016

Memories of ESOP V

Ryby
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In 1962, David Dunham made the first predicted observation of 5 G.Tau (6.41 mag), which was also performed successfully by another observer Leonard Kalish, near Castaic Junction, California.

International Occultation Timing Association

In 1975, David Dunham founded IOTA.

In 1976, an observer's guidebook was created. Current IOTA calendar (2019).

In 1983, Paul Maley, the vice president of IOTA, obtained IOTA – tax exempt status as a non-profit corporation in Texas..

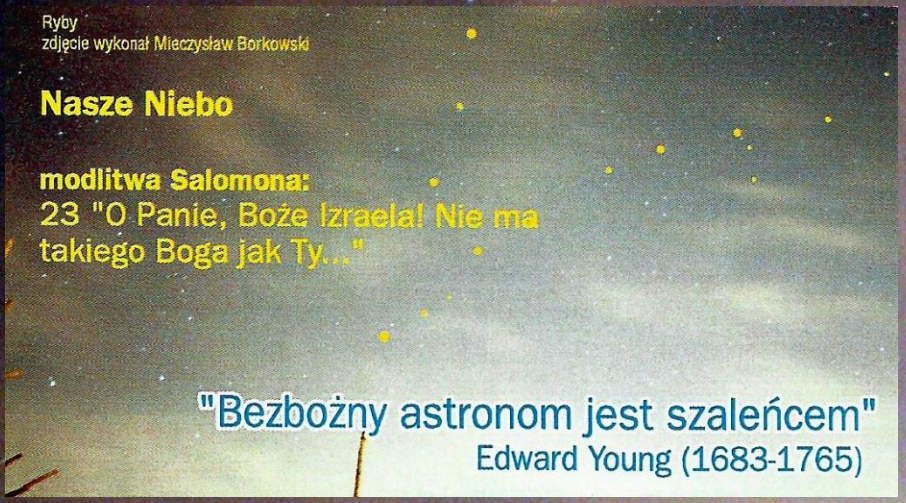
In the years 1983-1996 annual IOTA meetings were held in Texas.

In 1998, Richard Nugent, the newly elected Executive Secretary, recognized that IOTA meetings could take place anywhere in the US.

Memories of ESOP V

Ryby
zdjęcie wykonał Mieczysław Borkowski

Thank you for your attention



During the break, please take my business card off the table.