

# Program of the First Emirates Astronomical Conference "Applications of Astronomical Calculations"

CDR, Abu-Dhabi, United Arab Emirates  
13-14 December 2006 CE, 22-23 Thul Keadah 1427 AH

## First Day Activities: Wednesday 13 December 2006, 22 Thul Keadah 1427 AH

### \* Registration

Time	Activity
07:30	Departure from the Hotel to CDR
08:00 - 09:00	Registration

### \* Opening Session (09:00 – 10:00)

- Convener: Mr. Aaref Omar

Time	Activity
09:00 – 10:00	National Anthem and Verses from Holy Quran
	Speech of Conference's Patron \ Sheikh Mansour Bin Zayed Al Nahyan
	Speech of Organizers \ Eng. Khalfan Alnoaimy
	Tea Break

### \* First Session (10:00 – 11:40): Crescent Observations and Calculations

- Chairman: Dr. Nidhal Guessoum

Time	Activity
10:00 – 10:30	Dr. Bernard Yallop \ Single Parameter First Visibility Criteria
10:30 – 11:00	Eng. Mohammad Odeh \ New Criterion For Lunar Crescent Visibility
11:00 – 11:20	Dr. Salman Shaikh \ Hilal Sighting & Islamic Dates: Issues and Solution Insha'Allaah
11:20 – 11:40	Dr. Ilias Fernini \ Astronomical Crescent Visibility Criteria
11:40 – 12:20	Tea Break and and Posters Viewing \ Discussions

### \* Second Session (12:20 – 13:20): Crescent Observations and Calculations

- Chairman: Dr. Ilias Fernini

Time	Activity
12:20 – 12:40	Prof. Nematollah Riazi \ Some Reflections on the Visibility Problem and the Lunar Calendar
12:40 – 13:00	Mr. Firdaus Yahya \ An Analytical Study of Beginning and End of Ramadan During Prophet Muhammad's Time
13:00 – 13:20	Dr. Saleh Al-Shedhani \ New Technologies to Support the Crescent Sighting Committees
13:20 – 14:30	Lunch Break and Posters Viewing \ Discussions

### \* Third Session (14:30 – 15:30): Crescent Observations and Calculations

- Chairman: Dr. Bernard Yallop

Time	Activity
14:30 – 14:50	Eng. Mohammad Odeh \ Geocentric Moon Phases versus Topocentric Moon Phases
14:50 – 15:10	Eng. Yousef Terrible \ Moon Phase Calculations
15:10 – 16:00	Prayer Break and Posters Viewing \ Discussions

**\* Fourth Session (16:00 – 17:20): Crescent Observations and Calculations**

- Chairman: Dr. Saleh Al-Shedhani

Time	Activity
16:00 – 16:20	Eng. Muhammad Mushtaq \ Hilal Observatory Grid of Computer-Guided Telescopes and Webcams
16:20 – 16:40	Prof. Francois Querci \ Aircraft Equipment for New Lunar Crescent Observations
16:40 – 17:00	Dr. Hayman Metwalli \ Islamic Satellite for Moon Observation
17:00 – 17:20	Eng. Ali Amraoui \ The Crescent and Hijric Calendar in Moroccan Kingdom
17:20 – 18:00	Tea Break and Prayer

**\* Fifth Session (18:00 – 19:00): Round Table – Fiqh Views on Astronomical Issues**

- Chairman: Dr. Jalal Addeen Khanji

Time	Participants
18:00 – 19:00	Prof. Sharaf Al-Qudah Dr. Nizar Al-Sheakh

## Second Day Activities: Thursday 14 December 2006, 23 Thul Keadah 1427 AH

### \* Opening Speech

08:30 – 08:50	The experience of the Syrian Astronaut Major-General Mohammad Fares
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### \* First Session (08:50 – 10:30): The Islamic Lunar/Hijri Calendar

- Chairman: Prof. Hasan Bilani

Time	Activity
08:30 – 09:20	Dr. Nidhal Guessoum \ Progress in Solving the Problem of the Unified Crescent-based Islamic Calendar
09:20 – 09:50	Mr. Adnan Gadi \ A Historically Comparative Study of The Beginning of Ramadan (1380-1425H) between Announced Dates and Astronomical Dates (Istanbul 1978 Conference Criteria) in Saudi Arabia
09:50 – 10:10	Dr. Mohibullah Durrani \ A Calculated Islamic Calendar For North America (USA & Canada) vs. Hilal Sighting within North America
10:10 – 10:30	Eng. Jamal Eddine Abderrazik \ Unified Islamic Lunar Calendar
10:30 – 10:50	Tea Break

### \* Second Session (10:50 – 11:40): Prayer Times and Islamic Astronomical Software

- Chairman: Eng. Sakher Abdullah

Time	Activity
10:50 – 11:20	Dr. Jalal Addeen Khanji \ Asr Prayer Time: A Critique of the Current Approach and A Suggestion of an Alternative Method
11:20 – 11:40	Prof. Hasan Bilani \ Determination of Qibla Direction by Astrolabe
11:40 – 12:00	Break to View Participant Posters

### \* Third Session (12:00 – 13:15): Round Table–Astronomy Education in the Muslim World

- Chairman: Prof. Nebil Ben Nessib

Time	Participants
12:00 – 13:15	1- Mr. Marwan Shwaiki \ Planetariums and Museums in the Arab World 2- Mrs. Sana'a Abdo \ Astronomy Among Jordanian Students: Present Status and Prospects 3- Dr. Mahmoud Abu-Samrah & Prof. Imad Barghouthi \ Astronomical Literacy in Palestinian Schools and Universities
13:15 – 14:30	Lunch Break and Prayer

### \* Fourth Session (14:30 – 15:45): Observatories in the Muslim World

- Chairman: Eng. Khalil Konsul

Time	Activity
14:30 – 14:55	Prof. Francois Querci \ An Overview of the UAE National Telescope Project
14:55 – 15:20	Mr. Mohammad Hidayat \ The Design of Langkawi National Robotic Observatory
15:20 – 15:45	Dr. Joachim Baeumen \ Professional Lunar Crescent Observation Telescope: Necessary Standards and First Sightings of the Waxing Moon in Broad Daylight
15:45 – 16:15	Tea Break and Prayer

**\* Fifth Session (16:15 – 17:35): Islamic Astronomical Heritage**

- Chairman: Dr. Hassan Basurah

Time	Activity
16:15 – 16:35	Prof. Abdulkader Abed \ Reasons for the Variations in the Mihrab (Qibla) Directions of Mosques in Major Cities throughout the Islamic Civilization; Recent Implications
16:35 – 16:55	Dr. Yarub Al-Doori \ The Influence of Muslim Astronomers in Andalus and China
16:55 – 17:15	Prof. Nebil Ben Nessib \ Sundial of the Great Mosque of Kairouan
17:15 – 18:00	Tea Break and Prayer

**\* Closing Session (18:00 – 19:00): ICOP's future and Recommendations**

Time	Activity
18:00 – 18:30	<b>ICOP's Future</b> Dr. Nidhal Guessoum, Dr. Jalal Addeen Khanji, Eng. Mohammad Odeh
18:30 – 19:00	<b>Recommendations</b> Dr. Nidhal Guessoum, Eng. Mohammad Odeh, Eng. Khalfan Alnoimy, Mr. Hasan Al-Hariri,

### **Accepted Participant Posters**

Participant	Title
Dr. Hassan Basurah	Long Term Climate Change
Dr. Maher Nofal	Space Mission Design
Dr. Usama Hasan	The "Einstein Year" UK Moonwatch Project
Eng. Ali Amraoui	1-Calculation Methods to Find Qiblah Direction 2-Prayer Times and Software
Eng. Khalil Konsul	Moon Formation and Why Do We Study It
Eng. Mammam Ayouaz	Use of Satellite Images and GIS to Determine Observatory Locations
Mr. Abdulkader Eshteebi	Crescent Sighting Procedure in Morocco
Mr. Ali Aal-Jaber	QAS Activities
Mr. Alireza BoojMehrani	1-Activities related to crescent observation in Iran. 2. Showing photos about the crescent
Mr. Suhib Naes	Show for the device " Naes Hejric Calendar"
Mr. Youssef Belaabda	New Method to Calculate the Night Prayers (Maghreb, Isha and Fajer)
Prof. Majeed Jarad	Scientific Astronomical Criteria for Crescent Visibility and Actual Sighting
Prof. Nebil Ben Nessib	MuDeneb: A Software for Comet Orbits and Positions
Prof. Seyed Jalileddin Fatemi	A Preliminary Research on The Probable Visibility of Very Critical Lunar Crescent Using CCD

## List of Participants

#	Name	Organization	Country
1	Eng. Kacem Bankih	AMNIR: Club of Amateur Astronomy	Algeria
2	Eng. Mammam Ayouaz	The Observer Society for Science and Astronomy	Algeria
3	Mr. Nasr Al-Deen Al-Aayebi		Algeria
4	Mr. Yahia Meghnine	AMNIR: Club of Amateur Astronomy	Algeria
5	Prof. Loth Bounatiro	Baleada University	Algeria
6	Mr. Afroz Ali	Al-Ghazzali Centre for Islamic Sciences & Human Development	Australia
7	Dr. Hayman Zein El-Abedeem Metwalli	Cairo University	Egypt
8	Dr. Maher Nofal	National Authority for Remote Sensing and Space Sciences (NARSS)	Egypt
9	Dr. Omar Fikry	Library of Alexandria	Egypt
10	Dr. Jaouad Alkhaliki	UMT	France
11	Prof. Francois Querci	Obs. Midi-Pyrénées Toulouse France	France
12	Dr. Joachim Schulte in den Baeumen	Sonneberg Observatory	Germany
13	Dr. Peter Kroll	Sonneberg Observatory	Germany
14	Mr. Bernd Mueller	Sonneberg Observatory	Germany
15	Mr. Peter Aniol	University of Tuebingen	Germany
16	Prof. Franz Hasselbach	University of Tuebingen	Germany
17	Prof. Hanns Ruder	University of Tuebingen	Germany
18	Mr. Abdul-Aziz Al-Baqali	The Islamic Councils in Holland	Holland
19	Mr. Mohammad Ridwan Hidayat	Astronautic Technology (M) Sdn. Bhd. (ATSB)	Indonesia
20	Mr. Alireza BoojMehrani	Esfahan Municipality	Iran
21	Mr. Mohammad Zahed Aram		Iran
22	Mr. Seyed Mohsen Mirsaeed		Iran
23	Prof. Nematollah Riazi	Shiraz University	Iran
24	Prof. Seyed Jalileddin Fatemi	Kerman University	Iran
25	Prof. Majeed Jarad	Anbar University	Iraq
26	Eng. Khalil Konsul	AUASS	Jordan
27	Mrs. Sana'a Abdo	JAS	Jordan
28	Prof. Abdulkader Abed	UJ	Jordan
29	Prof. Sharaf Al-Qudah	UJ	Jordan
30	Dr. Jalal Addeen Khanji		Kuwait
31	Dr. Saleh Al-Morshed	Fintas Observatory	Kuwait
32	Eng. Hussain Khushaish		Kuwait
33	Mr. Adel Al-Sadoon	Fintas Observatory	Kuwait
34	Eng. Yousef Terrble	Libyan Center for Remote Sensing and Space Sciences	Libya
35	Mr. Salem Sahid		Libya
36	Mr. Ismahadi Ismail	Astronautic Technology (M) Sdn. Bhd	Malaysia
37	Mr. Kassim Bahali	Khawarizmi Observatory	Malaysia
38	Eng. Ali Amraoui	Ministry of Awqaf	Morocco
39	Eng. Jamal Eddine Abderrazik	MAS	Morocco
40	Mr. Abdulkader Eshteebi	Ministry of Awqaf	Morocco
41	Mr. Youssef Belaabda		Morocco
42	Eng. Muhammad Imran Mushtaq	Islamic Council of Norway	Norway
43	Dr. Saleh Al-Shedhani	Sultan Qabous University	Oman
44	Eng. Mohammed Al Bussaidi	Royal Court Affairs	Oman
45	Mr. Fahad Fadhil		Oman
46	Mr. Marwan Shwaiki	PDO Planetarium	Oman
47	Mr. Sleaman Al Bussaidi	Royal Court Affairs	Oman
48	Prof. Imad Barghouthi	Quds University	Palestine
49	Dr. Khalid Alsubai		Qatar
50	Dr. Ali Al-Shukri	King Fahd University of Petroleum & Minerals	Saudi

51	Dr. Hassan Basurah	King Abdul Aziz University	Saudi
52	Dr. Khalid Za'aq	Buraydah Observatory	Saudi
53	Eng. Shubber Al-Shakhori	QAS	Saudi
54	Eng. Yasser Al-Qattan		Saudi
55	Mr. Abdulali Fateel	QAS	Saudi
56	Mr. Abdullah Al-Ayadi	QAS	Saudi
57	Mr. Adnan Gadi		Saudi
58	Mr. Ahmad Aal-Ridwan	QAS	Saudi
59	Mr. Ali Aal-Jaber	QAS	Saudi
60	Mr. Ameen Al-Hawaj	QAS	Saudi
61	Mr. Anwar Aal-Mohammad	QAS	Saudi
62	Mr. Mastoor Al-Ahmari	QAS	Saudi
63	Mr. Mohammed Al Radhwan	QAS	Saudi
64	Mr. Salman Aal-Ramadan	QAS	Saudi
65	Mrs. Fatmah Al-Hilal	King Faisal University	Saudi
66	Prof. Hamzah Al-Mozayni		Saudi
67	Prof. Hasan Bilani	King Saud University	Saudi
68	Prof. Muhammad Al-Habboubi	KFUPM	Saudi
69	Mr. Firdaus Yahya	Islamic Religious Council of Singapore	Singapore
70	Major-General Mohammad Fares		Syria
71	Mr. Suhib Naes	Syrian Inventors Society	Syria
72	Prof. Nebil Ben Nessib	INSAT, University of 7 November at Carthage	Tunisia
73	Dr. Ilias Fernini	Al-Ain University	UAE
74	Dr. Nidhal Guessoum	Amercian University in Sharjah	UAE
75	Dr. Nizar Al-Sheakh	Applied Technology Institute	UAE
76	Eng. Khalfan Al-Noaimy		UAE
77	Eng. Mohammad Odeh	ICOP,JAS, EAS	UAE
78	Eng. Sakher Saif		UAE
79	Mr. Hasan Al-Hariri	Dubai Astronomy Group	UAE
80	Mr. Jean El Hakim	Al Mawakeb School - Dubai	UAE
81	Mrs. Bushra Idris	Sharjah Science Museum	UAE
82	Mrs. Ghada Mustafa	Sharjah Science Museum	UAE
83	Mrs. Nawal Basheer	Afaq School	UAE
84	Mrs. Shadha Almakhawi	Sharjah Science Museum	UAE
85	Dr. Bernard Yallop	UK Nautical Almanac Office	UK
86	Dr. Usama Hasan	Middlesex University	UK
87	Eng. Jaffer Dharamsi	World Federation of KSIMC	UK
88	Mr. Suliman Gani	Balham Mosque and Tooting Islamic Centre	UK
89	Dr. Tarek Katbeh	JAS	UK
90	Dr. Salman Shaikh	Hilal Sighting Committee of North America	USA
91	Dr. Keis A-Mahde	Sana University	Yemen
92	Dr. Yarub Al-Doori	Sana University	Yemen