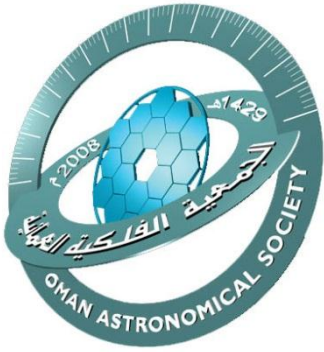


# CONFERENCE PROGRAM



## The 10<sup>th</sup> Arabic Conference on Astronomy and Space Sciences

## The Role of Astronomy and space Sciences in Contemporary Societies

5 – 8 February 2012  
Muscat, Oman



# First day Sunday 5 \ February \ 2012

## Opening Ceremony Program

9:30	Opening starts
9:30	The Holy Quran
9:35	The Welcome Speech
9:40	International Astronomical Union Speech <input type="checkbox"/>
9:45	AUASS President Speech
9:50	Space Sector Speech
9:55	European Space Agency Speech <input type="checkbox"/>
10:00	Inter-Islamic Network for Space Technology (ISNET) Speech <input type="checkbox"/>
10:05	Regional UNOOSA Center Speech <input type="checkbox"/>
10:10	Short video about Oman Astronomical Society Activities
10:15	Acknowledgment of Sponsors and Supporters
10:25	Opening of Space Technology and Poster Exhibitions
11: 15	Opening of Astronomy Activities Exhibition

# First day Sunday 5 \ February \ 2012

## Lunch and Prayer

## First Session

### Session 1

1:30 pm to 2:45 pm Session Chair: Prof. Nidhal Qassum	Panel Discussion "The Role of Astronomy and Space Sciences in Developing Contemporary Societies" <ul style="list-style-type: none"><li>▪ HE Ahmed Al-Mansoori, Member of the UAE Federal National Council;</li><li>▪ Shiekh Salman Al-Thani (AUASS Consultancy Office President)</li><li>▪ Mr. Muhammad Bilal, the Inter-Islamic Network for Space Science and Technology President;</li><li>▪ Prof. Alvaro Gimenez, Exploration Department Chair of ESA.</li></ul>
2:45 pm to 3:15 pm	Renaissance of the Wisdom House Prof. AlNaimiy, Hamid
3:15 pm to 3:30 pm	Participation of small countries to Space Missions – the Austrian Example Franz Kerschbaum
3:30 pm to 3:45 pm	The Neutrino, a new multipurpose cosmic probe Prof Jamal Mimouni
3:45 pm to 3:55 pm	Questions & Discussion
3:55 pm to 4:15 pm	Break

# First day Sunday 5 \ February \ 2012

## Session 2 & 3

Parallel Sessions	SQU Great Hall Space-based Earth Observations and Monitoring Session Chair : Dallal, Shawqi ( Vice President of AUASS, Dean of Scientific Research Council. Alahlea University, Bahrain)	Madraj AlFahm Astronomical Projects and Observatories Session Chair :AlNaimiy, Hamid M.K, President of AUASS
	4:15 pm to 4:30 pm	Usage of Satellites in Meteorology Dr. Juma Said Al-Maskari
4:30 pm to 4:45 pm	Remote Sensing Analysis Of Jabal Waqf As Suwwan Meteorite Impact Dr. Maria K Khirfan	Kottamia Astronomical Observatory Dr Gamal Bakr Ali
4:45 pm to 5:00 pm	RETRIEVAL OF AGROMETEOROLOGICAL PARAMETERS USING REMOTE SENSING DATA Dr. AYOUB AHMED ALMHAB	The New Aures Observatory and its impact on developing science in Algeria Dr. Nassim Seghouani Seghouani
5:00 pm to 5:15 pm	Remote Sensing Assessment of Cyclone Gonu in the Sultanate of Oman Dr. Andy Yaw Kwarteng	Describing the Wavefront Aberrations of the Hexagonal Aperture Using Modified Zernike Polynomials Mr. Raid Hassan
5:15 pm to 5:30 pm	Introduction and Evaluation of Access-Based Metrics for a Ground Segment in Muscat, a LEO Sunsynchronous Satellite Case Study Mr Hossein - Bonyan Khamseh	A simple Pixel IR detector over Astrophysical Observatories as A Cloud Detector Dr. Abdullarahman H Maghrabi
5:30 pm to 5:45 pm	Analytical Study of the Optimum Traffic Frequency for the HF Communications over Iraqi zone Dr. Khalid Abdulkareem Al-Khannak	Lunar IR Imaging Device Saad AlDeen Shukri Hussain
5:45 pm to 6:00 pm	Questions & Discussion	Questions & Discussion

# Second day Monday 6 \ February \ 2012

## Session 4 & 5

8:00 am to 8:30 am	Registration and Reception	
Keynote Speaker 8:30 am to 9:10 am	Space Science Programmes at the European Space Agency Prof. Alvaro Gimenez	
Parallel Sessions	Squ Great Hall New Innovation In Space Technology Session Chair:: Khasawnah, Awni (General Secretary Of AUASS, Jordan)	Madraj Alfahm Galactic & Cosmological Research Session Chair :Maymoni, Jamal (Vice President Of AUASS ,Astrophysics Department Chair, Qsantina University. Algeria )
9:10 am to 9:25 am	High-precision Guidance And Control System For Flying Vehicles Dr Saif Abdullah Al-hiddabi	Galactic And Extragalactic Supernovae Occurrences Prof.Shawqi Mohamed Saleh Al Dallal
9:25 am to 9:40 am	THE STUDY OF RADIO FREQUENCY INTERFERENCE (RFI) THERSHOLD LEVEL FOR RADIO ASTRONOMY Mr Roslan – Umar	Megamaser Galaxies Prof Rafik Anushavan Kandalyan
9:40 am to 9:55 am	Investigating The Potential Value Of Dates (Phoenix Dactylifera) As A Sustainable Food For Astronauts Dr. Aliya Saleh Alansari	Dark Matter Prof. Mohammed Basel Al-tai
10:10 am to 10:25 am	Application Of VSAT Technology On Transmitting Seismic Data Eng. Salam Mabrook Alhashmi	Perfect Fluid Dark Matter Dr Md. Mehedi Kalam Mehedi
10:25 am to 10:40 am	Design And Use Virtual Telescope Hasan Sabbar Sakafi	Testing The Nature Of Machos In The Galactic Halo By Means Of Microlensing Simulation Mr. Harith Hassan Mahdi
10:40 am to 10:50 am	Questions & Discussion	Questions & Discussion
10:40 am to 11:00 am	Tea & Coffee Break	Tea & Coffee Break

# Second day Monday 6 \ February \ 2012

## Session 6 & 7

Parallel Sessions	SQU Great Hall Peaceful usage of outer space technologies Session Chair : Shiekh Salman Al-Thani (AUASS Consultancy Office President)	Madraj AlFahm New approaches to Astro- Archeology ,History and Heritage Session Chair: Shaltot , Mosalam (Vice President of AUASS, Halwan Observatory, Egypt)
11:00 am to 11:15 am	Probing hajjej requirements and ways to utilize Space technology to ease navigation Dr. Saleh Said Al-Shidhani	نشأة علم الفلك العربي ومراحل تطوره – نظرة نقدية معاصرة استاذ دكتور جلال الدين كمال الدين خانجي
11:30 am to 11:45 am	HFG1 a large old planetary nebula Zaki Al-Mostafa	الصوفي ومجرة الأندروميديا استاذ هاني الضليع محمد الضليع
11:45 am to 12:00 am	The Libyan Experience in US Space & Rocket Center - for Universities graduates (Objective and results) Abdulgader.A.Elnagdi	Devices and astronomical observatories in Arab and Muslim scientists of the nineteenth century until today Hanan Ali Basbose
12:00 pm to 12:15 pm	RoMars 2011 Expedition to the Mars Desert Research Station and its Role in Promoting Space Outreach in Romania Mr Virgiliu G. Pop	دراسة مطالع النجوم ومغاربها ومدى توافقتها مع الديرة استاذ ناصر سعيد الهاشمي
12:15 pm to 12:30 pm	فيزياء الصدمات بالقرب من المجال المغناطيسي الكروي للارض دكتور سليمان محمد بركة	اهلاك عاد قوم هود في عمان بمجموعة من التورنيدات شريف محمد محمد حسن
12:30 pm to 12:45 pm	A Statistical Investigation of the Magnetic Field of Uranus and Neptune Bushra M. Ibrahim	بناء تراث فلكي عماني لبرنامج Stellarium الفاضل علي عامر الشيباني
12:45 pm to 12:55 pm	Questions & Discussion	Questions & Discussion
12:55 pm to 1:00 pm	Lunch & Prayer Break	

# Second day Monday 6 \ February \ 2012

## Session 8 & 9

Parallel Sessions	SQU Great Hall Astronomical Societies and Clubs as pioneers in civil societies Session Chair:Hajjar,Rojeh (Astrophysicist , Lebanon)	Madraj AlFahm الدراسات البحثية للنجوم والوسط ما بينها Session Chair :Sabat, Hana (Astronomy and Space Science Institutes, Al-AL-Bayte University, Jordan)
2:00 pm to 2:15 pm	Meteor observing network of the Middle East, African and Asian Region. Dr RAKA VASANT DABHADE	Precise measurement of the radio spectral index in the supernova remnants Mr Ismaël Moumen
2:15 pm to 2:30 pm	الحركة الجمعية و تطوير نشاط علم الفلك دكتور محمد عبد العزيز يحيياوي	Photometric properties of superhump in dwarf novae Dr. Wafaa Hassan Zaki
2:30 pm to 2:45 pm	The role of astronomical activities of Iran for developing iranian space agency Mr Koorosh - Rokni	tark broadening of singly ionized carbon spectral series 3s-np for hot DQ white dwarf atmospheres research. Prof Nabil Ben Taieb BEN NESSIB
3:00 pm to 3:15 pm	دور الجمعية الفلكية بمصر في نشر الثقافة الفلكية استاذ عمر محمد عبد الوهاب	Strange Quark Stars Dr . Mouhammed AlAssiry
3:15 pm to 3:30 pm	رصد وتصوير استتار كويكب بيراك...أول تجربة في العراق والشرق الاوسط استاذ أزي جتو حسن	Estimating Black Hole Masses in Binary Stars Dr Zacharias Ioannou
3:30 pm to 3:40 pm	Questions & Discussion	Questions & Discussion
3:40 pm to 4:00 pm	Tea & Coffee Break	Tea & Coffee Break

# Second day Monday 6 \ February \ 2012

## Session 10 & 11

	SQU Great Hall Various Cosmological and Astro. Studies Session Chair: Barghouthi, Imad (Department of Physics, Faculty of Science, Al-Quds University, Palestine)	Madraj AlFahm Astronomical Societies and Clubs as pioneers in civil societies Session Chair: Basourah, Hassan (Astronomy Department Chair of King Abdalaziz University, Saudi Arabia )
4:00 pm to 4:15 pm	Physical and Geometrical Elements of the Visually Close Binary System HIP 689 Dr Mashoor Ahmad ALWARDAT	A brief history of astronautics Mr Ben Nessib Riadh Ben nessib
4:15 pm to 4:30 pm	GT Transitions and associated weak decay rates of $^{24}\text{Mg}$ and its implication in 8-10 solar mass stars Dr Muneeb Ur Rahman Yousafzai	Kuwait Science Club: Lessons Learned In Raising Astronomy And Space Awareness Among Youth And The General Public Ms Maryam Hamed Aljoaan
4:30 pm to 4:45 pm	4D Polytopes and Quaternions Prof Mehmet Mehmet Koca	تطورات المرصد الفلكي في سورية استاذ عبد العزيز علي سنوبر
4:45 pm to 5:00 pm	Plasma bubbles signature in the ionosphere observed by SCINDA- GPS over Egypt during the year 2010. Amr Mohamed Abdallah	شعلة الجمعيات العلمية في الجزائر Fares Fares Boudechiche
5:00 pm to 5:15 pm	Spectra of star clusters in the LMC as an age indicator Randa Samir Asa'd	كيفية تنشيط الحصص العلمية للصغار: تجربة نادي الشاطر الفلكي الصغير عبد الناصر خالد زعاف
5:15 pm to 5:25pm	Questions & Discussion	Questions & Discussion
5:45 pm	التحرك لساحة الرصد	

# Third day Tuesday 7 \ February \ 2012

## Session 12 & 13

Parallel Sessions	SQU Great Hall Outreach programs and fostering interests in Science Session Chair: أ د جلال خانجي	Madraj AlFahm ورش بناء القدرات Committee Chair: Dr. Sabeeh Al-Saadi
8:30 am to 9:00 am	المركز الإقليمي لتدريس علوم وتكنولوجيا الفضاء لمنطقة غرب آسيا التابع للأمم المتحدة الدكتور: عوني محمد الخصاونة	ورشة المحاذة البصرية د سمير الخروصي
9:00 am to 9:15 am	الاستخدام السلمي للفضاء في ضوء الاتفاقيات الدولية ذات الصلة الأستاذ مبارك خلفان الهنائي	
9:15 am to 9:30 am	نحو توأمة المجتمع والعلوم الأساسية استاذ دكتور علي عبد علي جبر علي العلي عبد المحمداوي	
9:30 am to 9:45 am	Advances in Presenting Real Time Astronomy Data Ian J Dyer	ورشة التحكم من بعد بالمرصد د حسن وليام
9:45 am to 10:00 am	نهضتنا و تحديات نشر الثقافة العلمية رصد للفتحة بين العلماء و الجماهير استاذ محمد عبدالنعيم شمروخ	
10:00 am to 10:15 am	Amateur Radio Astronomy for Developing Countries Mr Vaibhav N Savant	
10:15 am to 10:30 am	Questions & Discussion	Questions & Discussion
10:30 am to 10:50 am	Break	

# Third day Tuesday 7 \ February \ 2012

## Session 14

Parallel Sessions	SQU Great Hall Planetary and Atmospheric research studies Session Chair: Prof. Jarad, Majeed (Al-Anbar University, Iraq)	Madraj AlFahm
10:50 am to 11:05 am	A comparison study between observations and simulation results of Barghouthi model for O+ and H+ outflows in the polar wind Prof. Barghouthi, Imad	ورشة تقنيات الفضاء في إدارة الكوارث  Mr. Hussein - Bonyan Khamseh
11:05 am to 11:20 am	Studying Earth's Ionosphere Using the Jordanian VLF/ ELF AWESOME Receiver Dr. Sabat, Hana	
11:20 am to 11:35 am	Determination sky radio emission Background using radio Jove Telescope Prof. Dr. Kamal M. Abood	
11:35 am to 11:50 am	Measuring Atmospheric Refraction and the influence of Dip Angle on the onset of Fajar and Isha times Dr Abdul Halim Abdul Aziz -	
11:50 am to 12:05 pm	the kinetic Alfven waves in ionosphere Naima Ghoutia Sabri	
12:05 pm to 12:20 pm	A Statistical Investigation of the Magnetic Field for the Jupiter Planet Dr. Bushra Qassim Al-Abudi	
12:20 pm to 12:30 pm	Questions & Discussion	
12:30 pm to 1:40 pm	Lunch & Prayer Break	

1:45

Tourist trips in Muscat

ورشة عمل أساسيات علوم الفضاء للمعلمين والمعلمات  
Session Chair : أ مروان الشويكي

2:00 – 3:50

إستراحة

4:10 – 5:50

طبيعة الفضاء وميزاته  
المفاهيم والمبادئ الفضائية  
أنواع المدارات الفضائية  
الصواريخ وسرعة التحرك  
الأقمار الإصطناعية  
وسائل التدريس الفعال  
نظام الملاحة العالمي  
تحديد المكان والمسافة باختلاف المنظر

# Forth day Wednesday 7 \ February \ 2012

## Session 15 & 16

8:30 – 10:30	SQU Great Hall Solar activities and climatic change Session Chair: Prof. AlWardat, Mashoor (Physics Department Yarmouk University)	Madraj AlFahm Meteorites, Craters, Asteroids and Space application and Observations Session Chair: أ د على طاهر شرف الدين
8:30 am to 9:00 am	Filaments and prominences disappearance in relation with Eruptive solar flares and coronal mass ejections during the solar cycle 23 <sup>rd</sup> Prof. Shaltot, Mosalam	Meteorite Craters and their Environmental Impacts Prof. Mohammed Salah Heikl
9:00 am to 9:15 am	A study of the effects of the short term solar activity on the behaviors of magnetic & ionospheric storms over Baghdad during solar cycle 22 Duraid A. Mohammed	الفوهات النيزكية المهندس خليل قنصل
9:15 am to 9:30 am	النشاط الشمسي مهندس صديق المبروك الناجح المبروك الناجح	Potential generated by an inhomogeneous straight segment Application to asteroids Nour-Eddine Najid § E.El ourabi
9:30 am to 9:45 am	Solar activities and effects on Climate change Prof. Ahmed Abdel Azim Abdel Hady	Satellite Applications Nico Stephan
9:45 am to 10:00 am	Ten Consequences of The Presence of Weak Solar Cycles Series (cycles 23 to 26) Prof. Shahinaz Yousef and Dr. Zaki Al Mostafa	تأثير التعدس الجذبي على الاجسام الفلكية البعيدة دكتور نهاد علي الجاف
10:00 am to 10:15 am	Derivation of the downward Velocity of the Flaring Region of 26 June 1999 دكتور عبدالقادر علي ايسيم	The Space Parliament Mohammede Nasab
10:15 am to 10:30 am	Questions & Discussion	Questions & Discussion
10:30 am to 10:50 am	Break	

# Forth day Wednesday 7 \ February \ 2012

## Session 17 & 18

Parallel Sessions	SQU Great Hall Solar activities and climatic change Session Chair: Dr. Mohammed Al-Aseri	Madraj AlFahm Astronomical Societies and Clubs as pioneers in civil societies Session Chair: Mona Anber
10:50 am to 11:05 am	Solar activities and climate change relations. Mr. Muddassir Siddiqui	تقسيم مياه الافلاج في عمان بواسطة المزولة الشمسية Mr. Ishaq Al-Sheali
11:05 am to 11:20 am	Solar Forcing on Cyclones Mr. Juma Al-Hadabi	الإجراءات الطبية لتدريب سواح الفضاء Mr. Ahmed Said Al-Jabri
11:20 am to 11:35 am	Astronomy News Eng. Emad Muneer Al-Asdi	نهاية الارض والنظام الشمسي والكون Mr. Adil Hassan Sadoon
11:35 am to 11:50 am		دراسة لمعان النجوم و ارتباطها بالحالة الجوية استاذ عبير علي المزيني
11:50 am to 12:00 pm	Questions & Discussion	Questions & Discussion
12:05 pm to 1:30 pm	Conclusion Session & Recommendation Prof. Hamid AlNaimiy  Dr. Saleh Said Al-Shidhani  Distribution of Trophy	
1:30 pm to 2:30 pm	Lunch & Prayer Break	
2:30 pm to 3:00 pm	Group Photo and collecting items from exhibitions	