



**ADRIM 2014**

12th Asia-Pacific Regional IAU Meeting  
August 18-22, 2014 / DCC, Daejeon, Korea

## **S7 : Historical Astronomy, Astronomy Education and Public Outreach**

**Session: [B2A-2] S7 : Historical Astronomy, Astronomy Education and Public Outreach**

**Date:** August 19, 2014 (Tuesday)

**Time:** 11:00~12:35

**Room:** Room B (Room 103)

**Chair:** Il-Sung Nha

**[B2A-2-1]**

**11:00~11:20**

**[Invited] Pre-Copernican Non-Ptolemaic Planetary Models: Copernicus and His Islamic Predecessors**

Tofigh Heidarzadeh (University of California, USA)

**[B2A-2-2]**

**11:20~11:35**

**The Change of the Timekeeping System(時刻制度) Before and After the Solar Calendar in Korea**

Goeun Choi (University of Science & Technology, Korea) and Young Sook Ahn

**[B2A-2-3]**

**11:35~11:50**

**An Account of Indian Astronomical Heritage from 5<sup>th</sup> CE to 12<sup>th</sup> CE**

Somenath Chatterjee (Sabitri Debi Institute of Technology, India)

**[B2A-2-4]**

**11:50~12:05**

**A Study about Celestial Movement Apparatus of Choi Yu Ji's Honcheonui**

Seon Young Ham (Chungbuk National University, Korea), Sang Hyuk Kim, and Yong Sam Lee

**[B2A-2-5]**

**12:05~12:20**

**Imkanur Rukyah as the Best Method in Determining Islamic Calendar**

Anuwar Syafiq B. Idrus (Islamic Science University of Malaysia, Malaysia)

**[B2A-2-6]**

**12:20~12:35**

**Study on the Manufacturing Technology and Astronomical Analysis of Portable Sundials of the Late Joseon**

Sang Hyuk Kim (Korea Astronomy and Space Science Institute, Korea), Ki-Won Lee, and Yong Sam Lee



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**Time:** 14:00~15:30

**Room:** Room B (Room 103)

**Chair:** Young Woon Kang (Sejong University)

[B2B-2-1]

14:00~14:20

**[Invited] The Zero-point of the Zodiac of the Hindu Astronomers in Ancient India**

Amalendu Bandyopadhyay (M. P. Birla Institute of Fundamental Research, M. P. Birla Planetarium, India)

[B2B-2-2]

14:20~14:40

**[Invited] Jesuit Astronomer Royal in China and 3,083 Stars in the Star-Catalogue Yixiangkaocheng**

Sang-Hyeon Ahn (Korea Astronomy and Space Science Institute, Korea)

[B2B-2-3]

14:40~15:00

**[Invited] Historical Astronomy in National Astronomical Observatory of Japan: Long-Term Variations of the Delay of the Earth Rotation**

Kiyotaka Tanikawa (National Astronomical Observatory of Japan, Japan) and Mitsuru Soma

[B2B-2-4]

15:00~15:15

**An Identification of the Animal Paintings in the Hall of Bulls of the Lascaux Cave as the Constellations**

Kwang-Tae Kim (Chungnam National University, Korea) and Young-Sik Kim

**Poster Session**

15:15~15:30

**Chairs:** Il-Sung Nha

Young Woon Kang (Sejong University)



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**Session:** [B3B-3] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 20, 2014 (Wednesday)

**Time:** 14:00~15:30

**Room:** Room C (Room 104)

**Chair:** Thilina Heenatigala (Universe Awareness)

[B3B-3-1]

14:00~14:15

**The Need of Distant Learning for Astronomy Development in Indonesia**

Avivah Yamani (langitselatan, Indonesia), Hakim. L. Malasan

[B3B-3-2]

14:15~14:30

**Enhancing the Teaching Astronomy in Schools Through Workshop for Teachers**

Lau Chen Chen (National Space Agency of Malaysia, Malaysia)

[B3B-3-3]

14:30~14:45

**Astronomy Education in India – Recent Trends in Human Resource Development**

Harinder P. Singh (University of Delhi, India) and Ajit K. Kembhavi

[B3B-3-4]

14:45~15:00

**IAU AstroEDU: an Open-Access Platform for Peer-Reviewed Astronomy Education Activities**

Thilina Heenatigala (Universe Awareness, SriLanka)

**Poster Session**

15:00~15:30

**Chair:** Thilina Heenatigala (Universe Awareness)

Harinder P. Singh (University of Delhi)



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**Session:** [B3B-5] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 20, 2014 (Wednesday)

**Time:** 14:00~15:30

**Room:** Room E (Room 107)

**Chairs:** Irina Voloshina (Sternberg Astronomical Institute)

Nguyen Quynh Lan (Hanoi National University of Education)

[B3B-5-1]

14:00~14:10

**Succeeding as a Female Astronomer: Peer Groups and Overcoming Impostor Syndrome and Unconscious Bias**

Blakesley Burkhart (University of Wisconsin Madison, USA)

[B3B-5-2]

14:10~14:20

**Women in Astronomy**

Shova Kanta Lamichhane (Government of Nepal Ministry of Science , Nepal), Manisha Dwa, and Suresh Bhattarai

[B3B-5-3]

14:20~14:30

**Women Astronomers in India**

G. C. Anupama (Indian Institute of Astrophysics, India)



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**Session:** [B3C-3] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 20, 2014 (Wednesday)

**Time:** 16:00~17:30

**Room:** Room C (Room 104)

**Chair:** Hidehiko Agata (National Astronomical Observatory of Japan)

[B3C-3-1]

16:00~16:15

**[Invited] Conduction of Astronomical Activities to Motivate Students in Public Schools of Nepal**

Sarita Baral (Takshashila Academy, Nepal)

[B3C-3-2]

16:15~16:30

**[Invited] Current Status of Astronomical Educational Observatories Activities in Uzbekistan**

Ehgamberdiev Sh. (Ulugh Beg Astronomical Institute of the Uzbek Academy of Sciences, Uzbekistan),  
Asfandiyarov I., Baijumanov A., and Tillaev Yu.

[B3C-3-3]

16:30~16:45

**[Invited] Chinese Ancient Poetry Astrophotography Competition**

Bing Li (Beijing Planetarium, China)

[B3C-3-4]

16:45~17:00

**PULSE@Parkes: Hands-On Radio Astronomy for High Schools**

R. Hollow (CSIRO Astronomy & Space Science, Australia), G. Hobbs, R. Shannon, and M. Kerr

**Poster Session**

17:00~17:30

**Chairs:** Hidehiko Agata (National Astronomical Observatory of Japan)

Thilina Heenatigala (Universe Awareness)



# APRIM 2014

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**Session:** [B4A-5] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 21, 2014 (Thursday)

**Time:** 11:00~12:30

**Room:** Room E (Room 107)

**Chair:** Tsolmon Renchin (National University of Mongolia)

[B4A-5-1]

11:00~11:15

**[Invited] Astronomy as a Part of Culture**

Hidehiko Agata (National Astronomical Observatory of Japan, Japan)

[B4A-5-2]

11:15~11:30

**[Invited] The Creative Approach for Disseminating Astronomy to the General Public**

Yudhiakto Pramudya (Universitas Ahmad Dahlan, Indonesia) and Widya Sawitar

[B4A-5-3]

11:30~11:45

**[Invited] Stars of Asia**

Fumi Yoshida (National Astronomical Observatory of Japan, Japan), Norio Kaifu, and Working group of Stars of Asia

[B4A-5-4]

11:45~12:05

**[Invited] International Year of Light 2015, Public Naming of Exoplanets and IAU Office for Astronomy Outreach**

Sze Leung Cheung (IAU Office for Astronomy Outreach, Japan)

**Poster Session**

12:05~12:30

**Chair:** Tsolmon Renchin (National University of Mongolia)



# APRIM 2014

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**Session:** [B5A-5] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 22, 2014 (Friday)

**Time:** 09:00~10:30

**Room:** Room E (Room 107)

**Chair:** Avivah Yamani (langitselatan)

[B5A-5-1]

09:00~09:15

**[Invited] Roles of the OAD: Astronomy for a Better World**

Wayne Orchiston (National Astronomical Research Institute of Thailand, Thailand) and Kevin Govendor

[B5A-5-2]

09:15~09:30

**[Invited] Astronomy for Development Approaches in Asia**

Kumiko Usuda-Sato (National Astronomical Observatory of Japan, Japan) and Akihiko Tomita

[B5A-5-3]

09:30~09:45

**[Invited] OAD Activities in South East Asia**

Suparerk Aukkaravittayapun (National Astronomical Research Institute of Thailand, Thailand), Boonrucksar Soonthornthum, Wayne Orchiston, Supaluck Chanthawan, and Sulisa Chariyalertsak

[B5A-5-4]

09:45~10:00

**Talking and Star-Gazing for Thai-Japanese Astronomy and Cultural Exchange**

Pisit Nitiyanant (National Astronomical Research Institute of Thailand, Thailand), Nakai Senjo, Siramas Komonjinda, and Saranya Kongjit

[B5A-5-5]

10:00~10:15

**Linking Young Astronomers in Southeast Asia: The SEAYAC Story**

Rogel Mari Sese (Regulus SpaceTech Inc., Philippines)

[B5A-5-6]

10:15~10:30

**The 2015 Faroese Solar Eclipse – Citizen Science**

Geoff Sims (University of New South Wales, Australia) and Kate Russo



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**Session:** [B5B-5] S7 : Historical Astronomy, Astronomy Education and Public Outreach

**Date:** August 22, 2014 (Friday)

**Time:** 11:00~12:30

**Room:** Room E (Room 107)

**Chair:** Sze Leung Cheung (IAU Office for Astronomy Outreach)

[B5B-5-1]

11:00~11:15

**[Invited] Documentary Series on Astronomy Research in India- Astroproject**

Rakesh Rao (Enscitec Production, India)

[B5B-5-2]

11:15~11:30

**[Invited] The Space and Application Department of University of Science and Technology of Hanoi: Toward the Young Space and Astronomy Generation**

Nguyễn Lương Quang (Canadian Institute for Theoretical Astrophysics, Canada), Yannick Giraud-Héraud, and Pierre Lesaffre

[B5B-5-3]

11:30~11:45

**[Invited] Vietnam Astronomical Society: Research, Training and Outreach Activities**

Nguyen Quynh Lan (Hanoi National University of Education, Vietnam), Dinh Van Trung, and Nguyen Van Khanh

[B5B-5-4]

11:45~12:00

**[Invited] Observations of the Annular Eclipse on 2012 May 21 by General Public in Japan**

Soma Mitsuru (National Astronomical Observatory of Japan, Japan)

**Poster Session**

12:00~12:30

**Chairs:** Sze Leung Cheung (IAU Office for Astronomy Outreach)

Avivah Yamani (langitselatan)





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## Poster Presentation

### **P7-01 Astronomy with Small Telescopes**

K. Yugindro Singh (Manipur University, India), I. Ablu Meitei, S. Ajitkumar Singh, and R. K. Basanta Singh

### **P7-02 Using Data Retrievals from CALIPSO and AERONET: Case Study of Aerosol Optical Thickness Over the Philippines and the East Asian Region**

Miguel M. Artificio (Rizal Technological University, Philippines), Custer Deocariz, and Mylene G. Cayetano

### **P7-03 Lunar Eclipse Computation in Indian Astronomy with Special Reference to Siddhāntic Texts**

Somenath Chatterjee (Sabitri Debi Institute of Technology, India)

### **P7-04 Factors Affecting Academic Performance of BS Astronomy Technology Students**

Ryan Manuel D. Guido (Rizal Technological University, Philippines) and Ruby-Ann B. Dela Cruz

### **P7-05 Importance of “A Touch of the Universe” Project to Children with and Without Vision Impaired in Nepal**

S. Gautam (Global Hand on Universe, Nepal) and S. Neupane

### **P7-06 Amateur Astronomy and Astronomy Education in India**

Somenath Chatterjee (Sabitri Debi Institute of Technology, India)

### **P7-07 Astronomy Education in Nepal After 2009**

Jayanta Acharya (NSU, Nepal)

### **P7-08 Astronomy in the Ancient Sundanese Culture**

Suhardja D. Wiramihardja (Institut Teknologi Bandung, Indonesia)

### **P7-09 A Lightcurve Photometry of Asteroid using a Digital Single-lens Reflex Camera**

Tatsuhiko Kitagawa (Nasukogen Kaijo High School, Japan), Hiroki Shozaki, Makoto Nakagawa, Seiya Makabe

### **P7-10 The Indigenous Sundanese Calendar: An Introduction**

Miranda H. Wihardja (Bestdaya Cultural Institute, Indonesia), Satrya Setiajaya Rasidi, and Ucaria Sastramidjaja

### **P7-11 Outreach Activity Using the Internet Telescope**

Haruhiko Ueda (Akita University, Japan), Yuki Yamamoto, Minoru Omote, Seiji Sakoda, and Kouichi Toda



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**P7-12 How Light Pollution Affected to the Astronomical Night**

Anuwar Syafiq B. Idrus (Islamic Science University of Malaysia, Malaysia)

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**P7-13 Distro Astro: A Debian-based Linux Distribution for Professional and Amateur Astronomy Use**

Frederick Gabriela (Rizal Technological University, Philippines) and Rochelle Derilo

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**P7-14 Red Color of Mars from Optical Spectrum**

Seung-A Lee (Korea Advanced Institute of Science and Technology, Korea), Duong-En Lee, Yeung-Hun Jo, and In-Ok Song

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**P7-15 ProAm Collaboration for Astronomy Education in Nepal**

Suresh Bhattarai (Nepal Astronomical Society, Nepal), Manisha Dwa, and Shova Kanta Lamichhane

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**P7-16 Women in Astronomy**

Manisha Dwa (Nepal Astronomical Society, Nepal), Suresh Bhattarai, and Shova Kanta Lamichhane

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**P7-17 Integrating Space Science into the Formal Education System in the Philippines**

Rogel Mari Sese (Regulus SpaceTech Inc., Philippines)

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**P7-18 OAD Activities & Astronomy Public Outreach in Viet Nam**

Nguyễn Lương Quang (Canadian Institute for Theoretical Astrophysics, Canada), Nguyễn Tấn Vũ, Đặng Tuấn Duy, Trần Huỳnh Thùy Trang, Phan Thanh Hiền, and Đặng Vũ Tuấn Sơn

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**P7-19 Color-Magnitude Diagram of M35 with DSLR**

Su-Jin Jang (Korea Advanced Institute of Science and Technology, Korea) and In-Ok Song

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**P7-20 Spectra of Reflected Sunlight from Planets**

Duong-En Lee (Korea Advanced Institute of Science and Technology, Korea) and In-Ok Song

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**P7-21 Handy Spectrograph and Its Application in Astronomical Education**

In-Ok Song (Korea Advanced Institute of Science and Technology, Korea)

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**P7-22 Students' Astronomy Public Outreach via Triannual Magazine Publication and Active Social Network Service Communication**

JJeonghwan H. Kim (Yonsei University, Korea), Woongbae Jee, and Juhyun Lee

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**P7-23 Using MITAKA for Astronomy Education in Peru**

Mario Zegarra-Valles (Instituto Geofísico del Perú, Peru), Shiomi Nemoto, and José Ishitsuka

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**P7-24 Using Astronomy and Botany to Improve Writing Skill**

Sukanya Nutaro (Ubon Ratchathani Rajabhat University, Thailand) and Piyaphat Nithitakkharanon



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**P7-25** **Creating a Science Learning Center in Kupang**

H. Wulandari (Institut Teknologi Bandung, Indonesia), P. W. Premadi, Y. Yulianty, K. Vierdayanti, S. Permani, Sulistiyowati, A. T. Jaelani, A. B. Priambodo, and A. T. Handini

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**P7-26** **Smartphones as Tools for Astronomy Education**

Albanna H. (a&a Interactive - Education Apps Developer, Indonesia), Ayulita A. K., and Mutiaz, I. R.

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**P7-27** **Astronomy Media in Indonesia**

Avivah Yamani (langitselatan, Indonesia), Wicak Soegijoko, and Ratna Satyaningsih

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**P7-28** **Public Relations for Safe Solar Eclipse Observation by Annular Eclipse 2012 Japan Committee**

Kouji Ohnishi (Nagano National College of Technology, Japan)

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**P7-29** **Science Education Programs by Large-scale Observation; the Annular Solar Eclipse 2012**

Kouji Ohnishi (Nagano National College of Technology, Japan)

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**P7-30** **Construction of a Low-Cost Philippine Ethnoplanetarium for Education and Public Outreach**

Frederick Gabriela (Rizal Technological University, Philippines)

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**P7-31** **langitselatan as an Astronomy Learning Base for Citizen Projects in Indonesia**

Ajeng Tri Handini (langitselatan, Indonesia), Aldino Baskoro, Avivah Yamani, and Emanuel Sungging Mumpuni

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**P7-32** **Story Telling Medium Development for Starlore**

Yatny Yulianty (langitselatan, Indonesia) and Avivah Yamani

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**P7-33** **SAARC Astronomy Education Program**

Rajmal Jain (Kadi Global University, India)

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**P7-34** **Teaching Astronomy Using Hybrid Astronomy Textbooks**

Michele M. Montgomery (UCF Physics, USA)

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**P7-35** **AASWomen, A Weekly E-Newsletter About the Status of Women in Astronomy**

Michele M. Montgomery (UCF Physics, USA)

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**P7-36** **Mobile planetarium activities and astronomical education in Mongolia**

Tsolmon Renchin (National University of Mongolia, Mongolia), Agata Hidehiko, and Kaz Sekiguchi

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**P7-37** **Collaboration Between Professional Institutions in Raising the Profile of Astronomy Research**

Shane Hengst (University of New South Wales, Australia) and Shaila Akhter