

# Program

## 31 August (Wednesday)

13:00

### [Astrophotography School, Day 1](#)

#### Lecture 1 — What Astronomy Magazine Wants

**Michael E. Bakich**, Contributing Editor, Astronomy Magazine

14:00

#### Lecture 2 — Basics of DSLR Astrophotography

**Oshin Zakarian**, Astroimager

15:00

#### Lecture 3 — Introduction to Planetary Imaging

**Christopher Go**, Astroimager

16:00

#### Lecture 4 — Art at Night: Location Scouting, Composition, Foreground Lighting, Getting More Creative

**Oshin Zakarian**, Astroimager

#### Evening

Hands-on practice under the stars

**Venue:** Apricot Aghveran Resort

**Tickets:** For tickets please send an Email to [Armenia@starmus.com](mailto:Armenia@starmus.com)

## 1 September (Thursday)

13:00

### [Astrophotography School, Day 2](#)

#### Lecture 1 — Meet Explore Scientific's Telescopes

[Scott Roberts](#), President, Explore Scientific

14:00

#### Lecture 2 — Planetary Image Acquisition / Basic Image Processing

[Christopher Go](#), Astroimager

15:00

#### Lecture 3 — Cameras and Photographing Objects at their Best

[Oshin Zakarian](#), Astroimager

16:00

#### Lecture 4 — Advanced Planetary Image Processing

[Christopher Go](#), Astroimager

#### Evening

Hands-on practice under the stars

**Venue:** Apricot Aghveran Resort

**Tickets:** For tickets please send an Email to [Armenia@starmus.com](mailto:Armenia@starmus.com)

## 2 September (Friday)

13:00

### [Astrophotography School, Day 3](#)

#### Lecture 1 — Going Deep: The Need for Shooting the Weird and Obscure

[David J. Eicher](#), Editor, Astronomy Magazine

14:00

#### Lecture 2 — Using Star Trackers to Capture More Detail

[Oshin Zakarian](#), Astroimager

15:00

**Lecture 3 — Image Processing Mini-Workshop**

[Christopher Go](#), Astroimager

**Evening**

Hands-on practice under the stars

**Venue:** Apricot Aghveran Resort

**Tickets:** For tickets please send an Email to [Armenia@starmus.com](mailto:Armenia@starmus.com)

## 4 September (Sunday) Pre-opening

19:00

[Welcome Concert by Tigran Hamasyan, Derek Sherinian and Edvard Moser](#)

**Program of the concert:**

19:00 – 19:20 Edvard Moser (Nobel Laureate Neurophysics) “Brain and Music” lecture

19:20 – 20:00 Derek Sherinian featuring Simon Phillips (drums), Ric Fierabracci (bass)

20:00 – 20:30 Break

20:30 Tigran Hamasyan “The Call Within” featuring Marc Karapetian (bass), Arthur Hnatek (drums)

**Venue:** Sport-Concert Complex, Concert Hall

**Ticket:** [Welcome Concert ticket](#)

## 5 September (Monday) Day 1

11:00 - 13:00

**Yerevan City Program**

**Venue:** Universities and Educational centers of Armenia

**Program:** Open lectures by Starmus Speakers

18:00 - 19:00

**Official opening of Starmus VI**

19:00

**Stephen Hawking Medal for Science Communication award ceremony & SONIC Universe Concert** with Armenian National Philharmonic Orchestra, Sons of Apollo, Rick Wakeman, Serj Tankian, Andrey Makarevich, Tigran Hamasyan and invited artists.

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

## 6 September (Tuesday) Day 2

11:00 - 13:00

**Yerevan City Program**

**Venue:** Universities and Educational centers of Armenia

**Program:** Open lectures of Starmus Speakers

15:00

[Discover the Cosmos and Change the World Conference](#)

15:00 - 16:30

**Tony Fadell** (ipod inventor, iphone co-inventor and Nest founder) Technology Synergies between Earth and Space

**Donna Strickland** (Physicist, Nobel Laureate) How to cut glass with lasers

**Emmanuelle Charpentier** (Microbiologist and Biochemist, Nobel Laureate) Gene Therapy

**Maureen Raymo** (Paleo climatologist) Climate Change: Is it too late?

16:30 - 17:30

Break

17:30

**Jean-Jacques Dordain** (Aerospace engineer and former DG of ESA) The message from Earth to humans on planet Earth

**Brian Greene** (Physicist and Science Communicator) The End of Time

**Bernhard Scholkopf** (Computer scientist) Is Artificial intelligence Intelligent ?

**Kurt Wuthrich** (Chemist, Nobel Laureate) mRNA and other biological macromolecules supporting the functioning of our bodies

**David Zambuka** Are you martian?

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

## 7 September (Wednesday) Day 3

**11:00 - 13:00**

### **Yerevan City Program**

**Venue:** Universities and Educational centers of Armenia

**Program:** Open lectures of Starmus Speakers

**17:30 - 20:30**

### **Discover the Cosmos and Change the World Conference**

**17:30 - 19:30**

**Louis Friedman** (Astrophysicist) 50 Years on Mars: from Mars 3 and Mariner 9 to Starship

**Bethany Ehlmann** (Planetary Scientist ) Science Discoveries at Mars: today and tomorrow

**Scott Hubbard** (Physicist ) Mars Exploration: The reconstruction

**Michel Mayor** (Astrophysicist, Nobel Laureate) Billions of planets in the Universe

**Lisa Kaltenegger** (Astrophysicist) Alien Earths

**David Grinspoon** (Astrobiologist) Climate catastrophes on Venus, Earth and Mars

**19:30 - 20:30**

Break

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

**20:30**

### **"Another World" Concert**

Brian May, Derek Sherinian with Simon Phillips, Ric Fierabracci & Ron Thal "Bumblefoot" Symphonic Orchestra of Armenian National Opera and Ballet Theatre Opening by Nemra, Montserrat Marti

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

## 8 September (Thursday) Day 4

**11:00 - 13:00**

### **Space Technologies Today and Tomorrow Conference**

**Jean-Jacques Dordain** (Aerospace engineer and former DG of ESA) Opening

**George Nield** (Astronaut and Engineer) The Commercial Space Age

**Nagin Cox** (Systems Engineer) Space and technologies: Mars Surface Operations

**Joel Parker** (Astrophysicist) To the Edge of the Solar System and Beyond: Flying along with NASA's Horizons Mission

**Michael Kezirian** (Adjunct Professor, USC & President, Century Fathom & President, International Space Safety Foundation) Space Sustainability: Orbital Space Environment and Integration (with the airspace)

**Juan Thomas Hernani** (Environmental Scientist) Satellite trends and technologies today

**Salem Humaid Al Marri** (General director of Mohammed bin Rashid Space Centre) UAE Space Programme from Earth to Mars

and in between

**Yervant Zorian** (Synopsys Armenia President) The intelligent chip technology, the backbone of the space systems

**Venue:** Sport-Concert Complex, Concert Hall

**Ticket:** [General attendee](#)

**11:00 - 13:00**

### **Yerevan City Program**

**Venue:** Universities and Educational centers of Armenia

**Program:** Open lectures of Starmus Speakers

**15:00**

### **Discover the Cosmos and Change the World Conference**

**15:00 - 16:30**

**Jim Bagian** (Astronaut and physician) The Human in Space- Medical and Physiological Challenges

**Xavier Barcons** (Astrophysicist, General Director of ESO) Feet on the ground, eyes on the sky: 60 years discovering the secrets of the Universe and looking ahead

**Wu Ji** (Aerospace Engineer and former DG of NSSC) Chinese Space Program

**Kam Ghaffarian** (Visionary Entrepreneur, founder of X-energy, Axiom Space) Building the off-Earth economy

**16:30 - 17:30**

Break

**17:30**

**Kip Thorne** (Physicist, Nobel Laureate) & **Lia Halloran** (Artist) Poetry, Art and Science : The Warped Side of the Universe

**Diana Acherman** (Poet and naturalist) What is Life – On Earth and in the mansions of the stars

**Mark Boslough** (Planetary scientist) Asteroids in action- Fire on the ground

Panel Discussion with **Emmanuelle Charoentier**, **Garik Israelian**, **Bernhard Scholkopf**, **Richard Marco** and **Tony Donne**

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

**17:00 - 23:00**

[Starmus Science Camp](#)

**Venue:** Opera Freedom Square

**Ticket:** Free entry

**22:00**

[Star Party, Stargazing](#)

**Ticket:** The number of tickets is limited, you can buy them by clicking [here](#).

## 9 September (Friday) Day 5

**11:00 - 13:30**

[Yerevan City Program](#)

**Venue:** Universities and Educational centers of Armenia

**Program:** Open lectures of Starmus Speakers

**11:00 - 13:30**

[Space Technologies Today and Tomorrow Conference](#)

**Harold "Sonny" White** (Aerospace engineer, Applied Physicist ) Interstellar flight, the ultimate moon shot

**Garrett Reisman** (engineer and former NASA astronaut) SpaceX - Amazing journey from Falcon to Starship

**Adam Burrows** (Full Professor of Astrophysical Sciences) Issues for the New Space Economy: Space Debris, Space Traffic Management

**Armen Kherlopian** (data scientist, researcher, entrepreneur, investor and expert in AI) Five Hazards of Space Health

**Arbi Karapetian** (Section Manager - Flight Electronics at NASA Jet Propulsion Laboratory) From Space to Earth - NASA/jpl VENTILATOR FOR covid - 19 patients

**Alfred McEwen** (planetary geologist and director of the Planetary Image Research Laboratory (PIRL) High resolution imaging of planetary surfaces

**Venue:** Sport-Concert Complex, Concert Hall

**Ticket:** [General attendee](#)

**15:00**

[Discover the Cosmos and Change the World Conference](#)

**15:00 - 16:30**

**Charlie Duke** (Moonwalker, Apollo 16 Program) Walking and driving on the Moon

**George Nield** (Astronaut and Engineer) Space Tourism Today and Tomorrow

**Paul Franklin** (Visual Effects Supervisor) Visual effects: from Science to Arts

**Tony Donne** (Programme Manager and CEO of EUROfusion) Fusion: creating a star on earth

**16:30 - 17:30**

Break

**17:30**

**Chris Hadfield** (Astronaut, engineer, fighter pilot and author) An Astronaut's guide to walking in Space

**George Smoot** (Physicist, Nobel Laureate) The Origin of the Universe

**Leon Stok** (Engineer, IBM) Recent Advances in Quantum Computing

**Jill Tarter** (Astrophysicist) Intelligent Life in the Universe – Is there anybody out there?

Panel Discussion with **Charlie Bolden**, **Jean-Jacques Dordain** and **Wu Ji**

**Venue:** Sport-Concert Complex, Ice Arena

**Ticket:** [General attendee](#)

**17:00 - 23:00**

**[Starmus Science Camp](#)**

**Venue:** Opera Freedom Square

**Ticket:** Free entry

**20:00**

**Closing Ceremony and Film Premiere**

**Venue:** Sport-Concerts Complex, Concert Hall

**Ticket:** [General attendee](#)