

# Putting A Stars into Context: Evolution, Environment, and Related Stars

June 3-7, 2013

Moscow, Russia

This is the third announcement for the upcoming conference:

Putting A Stars into Context: Evolution, Environment, and Related Stars,

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We remind all potential participants that the deadline for registration and submission of abstracts is April 1, 2013.

Registration

To register for the meeting and submit your abstract, please, point your browser to <http://agora.guru.ru/astars2013/> and follow the instructions

The registration fee covers all regular meeting costs including abstract book, welcome party, coffee breaks, conference banquet, Moskva-river cruise tour, and classical music concert. Full conference registration costs 280 Euros (11 300 Rubles). Participants who pay the registration fee before April 1, 2013, benefit from a discount of 30 Euros. Payments can be made via credit card.

Program:

Overview introductory talk (John D. Landstreet)

Session 1: A-star formation

1a. Big clouds to open clusters

Invited talks:

- 1.1. Chemically peculiar tepid stars in the Milky Way and beyond (Martin Netopil)
- 1.2. Elemental abundances in open cluster A-type and related stars (Luca Fossati)

1b. Small clouds to stars

Invited talks:

- 1.3. Discs around A-type and related stars (Helmut Abt)
- 1.4. Accretion discs around magnetic stars (Caroline D'Angelo)
- 1.5. Planets around A stars (David Mkrtychian)
- 1.6. Distant sub-stellar companions of A-type and related stars
- 1.7. Multiplicity of A-type and related stars (Pierre North)

1c. Magnetic field generation

Invited talks:

- 1.8. Magnetic fields in Herbig Ae/Be stars (Evelyne Alecian)
- 1.9. Generation and evolution of stable stellar magnetic fields (Rainer Arlt)
- 1.10. The protostar merger scenario of Ap star magnetic field generation (Lilia Ferrario)

Session 2: Properties of A-type stars

Invited talks:

- 2.1. Determinations of fundamental parameters of (chemically peculiar) A stars through optical interferometry (Karine Perraut)
- 2.2. Recent results and current challenges in normal and chemically peculiar A-star model atmospheres (Denis Shulyak)
- 2.3. Simultaneous mapping of chemical abundances and magnetic field structure in Ap stars (Theresa Lueftinger)
- 2.4. Element spots in HgMn stars (Heidi Korhonen)
- 2.5. The origin of light variability in Ap stars (Jiri Krlicka)
- 2.6. Vertical abundance gradients in Ap-star atmospheres (Tatyana Ryabchikova)

Session 3: Rotation and hydrodynamics of A-type and related stars

Invited talks:

- 3.1. Time-dependent diffusion and abundance stratification in A- and B-type stars (with and without mass-loss)
- 3.2. A-star rotation (Frederic Royer)
- 3.3. Ap stars with variable rotation periods (Zdenek Mikulasek)
- 3.4. Rotation and hydrodynamical processes in upper main-sequence stars (Stephane Mathis)

Session 4: Pulsation of A-type and related stars

Invited talks:

- 4.1. A- and B-type star pulsations in the Kepler and CoRoT era: observational results (Katrien Uytterhoeven)
- 4.2. A- and B-type star pulsations in the Kepler and CoRoT era: theoretical considerations (Hideyuki Saio)
- 4.3. Observational studies of roAp stars (Mikhail Sachkov)
- 4.4. Stochastic oscillations in A-type and related stars (Victoria Antoci)

Session 5: Magnetic fields from O to early F stars

Invited talks:

- 5.1. Magnetic fields in O stars
- 5.2. Magnetic fields in beta Cep, SPB and Be stars
- 5.3. Recent results and current challenges in observations of Ap/Bp star magnetic fields (Iosif Romanyuk)
- 5.4. Magnetic fields in A stars besides Ap stars (Oleg Kochukhov)
- 5.5. Non-pulsational variability of A- and B-type stars as observed by Kepler (Luca Balona)