

CPS (惑星科学研究センター)では, 2011 年 1 月 10 日から 15 日の日程で

## Theory of Stellar Evolution and Its Applications

### From the First Stars to Planet-Hosting Stars and Gas Giant Planets

「恒星進化の理論とその応用 ---宇宙最初の星から惑星母星、巨大ガス惑星まで ---」  
を開催します。

詳細はこちら

<https://www.cps-jp.org/~pschool/pub/2011-01-10/index.html>

・原則, 全日程参加(会場ホテルに宿泊)をお願いします。

・若手(博士(後期)課程の院生からポスドクレベル)の方々に, 自分の研究費をお持ちでない方々)には, 限られた予算ではありますが, 旅費支援枠を用意しています。

支援を受けた若手の皆さんには, ポスター発表, ならびに, スクール運営協力(講義記録の作成と講演資料収集, スクール終了後の資料整理)をお願いしております。

・参加応募締切り

旅費支援希望する参加者 8 月 22 日 (推薦書も必要です)

旅費支援を希望しない参加者 8 月 29 日

応募はこちらから

[https://www.cps-jp.org/guestEntryPrivacypolicySimple.php?ml\\_lang=en](https://www.cps-jp.org/guestEntryPrivacypolicySimple.php?ml_lang=en)

推薦書はこちらへ

[pschool-7rgst@cps-jp.org](mailto:pschool-7rgst@cps-jp.org)

お問い合わせ

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Center for Planetary Science

1-1 Rokkodai, Nada, Kobe 657-8501, Japan

First Circular

<https://www.cps-jp.org/~pschool/pub/2011-01-10/index.html>

CPS 7th International School of Planetary Sciences

Date: 10 – 15 January 2011

Venue: Seapal Suma, a casual seaside resort located in the west part of Kobe, Japan

Address: 1-1-1 Sumaura-dori, Suma, Kobe 654-0055 Japan

Phone: +81 78 731 6815 / Fax: +81 78 734 1896

Japanese site:

<http://www.seapalsuma.com/>

English site:

[http://web.travel.rakuten.co.jp/portal/my/info\\_page\\_e.Eng?f\\_no=13907&f\\_ptn1=&f\\_teikei=](http://web.travel.rakuten.co.jp/portal/my/info_page_e.Eng?f_no=13907&f_ptn1=&f_teikei=)

#### Objective and Scope:

The objective of CPS International School of Planetary Sciences is to promote education and research in planetary sciences for highly motivated graduate students and young researchers worldwide. It will offer them an opportunity to interact with leading scientists in a specific field of the year. Note that “Planetary Sciences” includes astronomy (astrophysics, astrochemistry, astrobiology, etc.), geosciences, space science, and other related fields.

#### Topic of the coming school

Theory of Stellar Evolution and Its Applications – from the First Stars to Planet-Hosting Stars and Gas Giant Planets

The main part of the school will be a series of lectures on the structure and evolution of stars with various masses including gas giant planets and on the effects of mass loss and stellar rotation upon them.

Then a series of lectures follow on their contributions to the nucleosynthesis and chemical evolution of the Milky Way and dwarf galaxies in the local group and to the evolutionary characteristics of planet-hosting stars from theoretical and observational viewpoints.

The development of our understandings in these fields has been achieved by recent observations with large ground-based telescopes and space telescopes and owing to large-scaled surveys of metal-poor stars, supernova searches and searches for exo-planetary systems.

CPS 7th International School has a special session dedicated to the memory of Prof. Chushiro Hayashi who was one of the founders of the theory of stellar evolution and passed away in 2010.

Internationally well-established experts in various fields will review recent progress in our understandings of those fields. The lecturers and their topics are listed below:

Daiichiro Sugimoto (The University of Tokyo, Japan)

---Why the Stars and the Universe evolve? --- Fundamentals of Stellar Structure and Evolution and Their Gravo-thermal Natures

Peter R. Wood (Australian National University, Australia)

---Evolution and Mass Loss of Low- and Intermediate-Mass Stars

Georges Meynet (University of Geneva, Switzerland)

---Evolution of Massive Stars and the Effects of Rotation

Stanley P. Owocki (University of Delaware, USA)

---Mass Loss from Massive Stars

Alexander Heger (University of Minnesota, USA)

---Explosive Nucleosynthesis

Martin Asplund (Max-Planck-Institut für Astrophysik, Germany)

---Solar Abundances, Solar Twins, and Planet Harboring Stars

Arlette Noels (Université de Liège, Belgium),

---Seismology and Oscillations of Stars

Jonathan J. Fortney (University of California, Santa Cruz, USA)

---Structure and Evolution of Gas Giant Planets

Andrea Ferrara (Scuola Normale Superiore, Italy)

---Star Formation in the Early Universe and the Transition from

## Population III to Populations II and I

Eline Tolstoy (University of Groningen, The Netherlands)

---Chemical Evolution of the Milky Way and Local Group Galaxies

Memorial Lecture for Prof. Chushiro Hayashi

Daiichiro Sugimoto (The University of Tokyo, Japan)

---The Discovery of Hayashi Phase and His Way of Thinking

Who are the target participants?

- The lectures are targeted on PhD students and post-docs
- Please note that this school is not for bachelor and diploma students
- All the lectures are in English and we welcome eligible applicants worldwide

How to apply?

- Please go to the following webpage

[https://www.cps-jp.org/guestEntryPrivacypolicySimple.php?ml\\_lang=en](https://www.cps-jp.org/guestEntryPrivacypolicySimple.php?ml_lang=en)

First, create your CPS account at this page.

Then, go to CPS website <https://www.cps-jp.org/> and login with your CPS User ID you have registered.

You will see “CPS 7th International School of Planetary Sciences” at the right column. Click there and start registration application.

\*A few things to note when you fill out our web application form

- 1.Name: Must be exactly the same as shown in your passport
- 2.Poster Presentation: If you are applying CPS travel grant, choose ‘yes’, otherwise, your application will be considered as participation application
- 3.Your research subjects and/or interests: Describe your research subjects with 250 words or less. The advisory committee will take this section to evaluate your application for both travel grant as well as participation
- 4.Reference: Input the name, title, and affiliation of a person who will give us a letter of recommendation.
- 5.Departing City: It means the name of the city where you are departing

from.

6.Date of entry to Japan/Date of departure from Japan: For those who are coming from outside of Japan, please indicate your planned date for entry/departure to and from Japan. For those coming within Japan, please key in the date of your scheduled departure to and from Kobe.

7.Do you need a visa to Japan?: Follow this link to check if you need an entry visa to Japan [http://www.mofa.go.jp/j\\_info/visit/visa/](http://www.mofa.go.jp/j_info/visit/visa/).

- Registration Applications must be received by 29 August 2010
- Should you wish to apply for our travel grant, both the application form and the letter of recommendation must be reached by 22 August 2010
- Poster abstract submission deadline is 27 November 2010

How are participants selected and who makes the final decision?

- Advisory Committee will evaluate the level and suitability of applicant's works and interests to the school
- The school chair will make the final decision and applicants are notified accordingly

Need CPS travel grant?

- Indicate your intention in the application form
- Do arrange with your supervisor to send us a letter of recommendation to [pschool-7rgst@cps-jp.org](mailto:pschool-7rgst@cps-jp.org), the letter has to reach us no later than 22 August 2010
- Successful applicants are to present your poster in the poster session
- For Japanese successful applicants, you are to contribute in archiving lecture materials
- Note that the available funds are limited and the grant may not cover ALL of your expenses
- The final decision for travel grant application and the amount will be at the organizing committee's discretion
- Note that the deadline for travel grant application is 22 August 2010

Registration Fee:

10,000 JPY

Accommodation:

Participants:

- 4 persons share one traditional Japanese-style tatami room
- The room has a toilet but no bathtub and shower
- Ocean view public bath is located at the top floor and it is open until 23:00 daily

Lecturers:

- Western style twin rooms with a shower are available for single use
- Please let us know should you prefer to stay in a Japanese-style room

Rates per person in Japanese Yen

Standard, 4 in 1 room Single Use

47,000 62,000\*

\*Reserved for Lecturers

Access

in JPY

From to by mins fare

Kansai Int'l Airport Kobe, Sannomiya Bus 65-75 1,900

JR Sannomiya Sta Sumakaihinkoen JR Local train 15 170

Sumakaihinkoen Seapal Suma Walk 8 0

From to by mins fare

Kansai Int'l Airport Kobe Airport Ferry 30 1,500

Kobe Airport Seapal Suma Taxi 30 6,000\*

\*Note that taxi fare is subject to change due to traffic conditions

From to by mins fare

Kobe Airport Sannomiya Port Liner 18 320

JR Sannomiya Sta Sumakaihinkoen JR Local train 15 170

Sumakaihinkoen Seapal Suma Walk 8 0

From to by mins fare

Osaka Itami Airport Kobe, Sannomiya Bus 40 1,020

JR Sannomiya Sta Sumakaihinkoen JR Local train 15 170

Sumakaihinkoen Seapal Suma Walk 8 0

Important Dates:

All deadline times are 23:59 Japanese Standard Time, UTC+9

22 August 2010 Travel Grant Application deadline

29 August 2010 Registration Application deadline

9 September 2010 Result Notification

27 November 2010 Poster presentation abstract deadline

10-15 January 2011 CPS 7th International School of Planetary Sciences

Organizing Committee

Advisory Committee

Ken-ichi Nomoto (IPMU, The University of Tokyo)

Hiroyasu Ando (National Astronomical Observatory of Japan)

Takashi Kozasa (Hokkaido University)

Hiro moto Shibahashi (The University of Tokyo)

Nobuo Arimoto (National Astronomical Observatory of Japan)

Toshitaka Kajino (National Astronomical Observatory of Japan)

Toshikazu Shigeyama (RESCEU, The University of Tokyo)

Issei Yamamura (ISAS/JAXA)

Wako Aoki (National Astronomical Observatory of Japan)

Masahiro Ikoma (Tokyo Institute of Technology)

Local Organizing Committee (\* Chair, \*\* Scientific secretary, \*\*\* Secretary)

Masayuki Y. Fujimoto\* (CPS, Hokkaido University)

Takuma Suda\*\* (Hokkaido University)

Yutaka Katsuta\*\* (Hokkaido University)

Nozomu Tominaga\*\* (Konan University)

Hiroshi Kimura (CPS)

Ko-ichiro Sugiyama (CPS)

Yoshiyuki O. Takahashi (CPS)

Seiya Nishizawa (CPS)

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Yoshiko Honjo\*\*\* (CPS)  
Mire Murakami\*\*\* (CPS)  
Mariko Hirano\*\*\* (CPS)  
Yasuko Uematsu\*\*\* (CPS)

#### Program Committee

Masayuki Y. Fujimoto (CPS, Hokkaido University)  
Toshikazu Shigeyama (RESCEU, The University of Tokyo)  
Yoichi Itoh (CPS, Kobe University)  
Yuri Aikawa (CPS, Kobe University)  
Masahiro Ikoma (Tokyo Institute of Technology)  
Takuma Suda (Hokkaido University)  
Nozomu Tominaga (Konan University)

#### Contact us

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