

Symposia of the 30th Anniversary of the Advanced Science Research Center

30周年記念事業の一環として、式典の翌日12月7日にサイエンスシンポジウムを開催しました。午前のセッションは1日目と同じ東海文化センターにて、来賓としてお越しいただいた評価委員の皆様より基調講演を賜りました。午後のセッションは東海村中央公民館と歴史と未来の交流館に場所を移し、先端基礎研究センター各研究グループから最新の研究成果を報告するとともに、外部よりお招きした共同研究者の皆様よりご講演を賜りました。

初日の記念式典に引き続き、評価委員の皆様、先端基礎研究センター歴代センター長、OB等、海外を含む遠方から多くの方々にご参加いただきました。参加者であふれかえった会場で活発な質疑応答に花を咲かせ、サイエンスを楽しむとともに現在の先端基礎研究センターの研究活動を多くの方々に知っていただく大変良い機会となりました。

当日は天候にも恵まれ、歴史と未来の交流館の中庭でのランチタイムでは旧交を温める光景も多くみられました。



Takashi Nakano
(RCNP, Osaka Univ.)



Fanny Farget
(GANIL)



Hrvoje Petek
(Univ. Pittsburgh)



Andreas Türler
(Univ. Bern)



Takahiro Onimaru
(Hiroshima Univ.)



Hironori Sakai
(ASRC, JAEA)



Mikihiko Oogane
(Tohoku Univ.)



Ibrahim Maamoun
(ASRC, JAEA)



Yukiko Yamada-Takamura
(JAIST)



Satoshi Yasuda
(ASRC, JAEA)



Hiroto Adachi
(Okayama Univ.)



Maki Umeda
(ASRC, JAEA)



Shinichi Esumi
(Tsukuba Univ.)



Tadashi Hashimoto
(ASRC, JAEA)



Yoshitaka Kasamatsu
(Osaka Univ.)



Philipp Gubler
(ASRC, JAEA)



Takayuki Myo
(Osaka Inst. Tech.)



Kentaro Hirose
(ASRC, JAEA)



Tetsuya Sato
(ASRC, JAEA)



Yoshihiro Aritomo
(Kindai Univ.)



午前:基調講演(東海文化センター)



中庭でのランチタイム(歴史と未来の交流館)



午後:物質科学セッション(歴史と未来の交流館)



午後:核科学セッション(東海村中央公民館)

Symposia of the 30th Anniversary of the Advanced Science Research Center Program

Date: December 7th (Thur.)

Keynote Lectures (9:30 -12:30)

Place: Tokai Culture Center (768-1 Funaba, Tokai, Ibaraki 319-1115, Japan)

9:30 Opening Address

Hidehito Asaoka (Deputy Director General, ASRC)

Session 1 [Chair: Yutaka Utsuno (ASRC)]

9:35 "Hadrons and Nuclei - From the Wonders of Physics to Future Technologies"

Takashi Nakano (RCNP, Osaka Univ.)

10:15 "On the Importance of Heavy-Ion Accelerators for the Study of Neutron-Induced Processes"

Fanny Farget (GANIL)

10:55 Coffee Break

Session 2 [Chair: Yoshinori Haga (ASRC)]

11:10 "Material Electronic Properties by Design: Dressing Matter by Ultrafast Light Fields"

Hrvoje Petek (Univ. Pittsburgh)

11:50 "Photonuclear Reactions: The Future of Large-Scale Radionuclide Production for Diagnosis and Therapy of Cancer"

Andreas Türler (Univ. Bern)

12:30 Lunch

Parallel Sessions (13:30 -18:00)

Materials Science

Place: History and the Future Community House

Nuclear Science

Place: Central Community Center

Chair	Tetsu Ichitsubo (Tohoku U/ASRC)	Katsuhisa Nishio (ASRC)
13:30	"Nonmagnetic multipole order in 4f electron systems studied by neutron scattering technique" Takahiro Onimaru (Hiroshima U)	"Many-body resonances and continua in light unstable nuclei" Takayuki Myo (Osaka Inst. Tech.)
14:00	"Single crystal growth of uranium-based superconductor UTe ₂ and its physical properties" Hironori Sakai (ASRC)	"Understanding the origin of hadron masses from proton-nucleus collisions at J-PARC" Philipp Gubler (ASRC)
14:30	"Development of highly sensitive spintronic sensor" Mikihiko Oogane (Tohoku U)	"New development and perspectives on fission process by dynamical model" Yoshihiro Aritomo (Kindai U)
15:00	"Catalytic effect of modification by transition metals on zero-valent iron nanoparticles for the reductive immobilization of Re(VII)" Ibrahim Maamoun (ASRC)	"Experimental fission study at JAEA" Kentaro Hirose (ASRC)
15:30	Coffee Break	Coffee Break
Chair	Katsuyuki Fukutani (U Tokyo/ASRC)	Hirokazu Tamura (Tohoku U/ASRC)
16:00	"Structure determination of novel 2D materials" Yukiko Yamada-Takamura (JAIST)	"Experimental Studies on Atomic and Chemical Properties of Superheavy Elements at JAEA" Tetsuya Sato (ASRC)
16:30	"Elucidation of the hydrogen isotope separation mechanism of graphene" Satoshi Yasuda (ASRC)	"Researches on chemical properties and chemical influence on nuclear decay for heavy elements" Yoshitaka Kasamatsu (Osaka U)
17:00	"Thermoelectric conversion with two-color magnons and superconducting vortices" Hiroto Adachi (Okayama U)	"Investigation of peculiar bound systems composed of an anti-K meson and a nucleus" Tadashi Hashimoto (ASRC)
17:30	"Barnett effect in ferrofluids" Maki Umeda (ASRC)	"Experimental challenges for finding the Critical Point in the QCD phase diagram" Shinichi Esumi (Tsukuba U)