

## 2012 Advanced Course of Energy Science and Engineering

**Monday 15:05-16:35**

**Room G512 (Suzukakedai Campus)**

No.	Date	Lecturer	Title of Lecture
1	Oct.9	Y.Okuno	Guidance / Advanced Energy Conversion Technology
2	Oct.15	J.Hasegawa	Inertial Confinement Fusion and Beam-Plasma Interactions
3	Oct.22	F.Xiao	Numerical simulations of thermal fluid dynamics
4	Oct.29	T.Kuriyama	Applications of Superconductivity and Cryogenics for Energy Science Research
5	Nov.5	K.Saneyoshi	Electrostatic Actuator as Artificial Muscle
6	Nov.12	Y.Hasegawa	Distributed Energy System
7	Nov.19	Y.Oguri	Measurement of Urban Roadside Particulate Matter Using MeV Ion Beams
8	Nov.26	T.Watanabe	Advanced Plasma Processing
9	Dec.3	T.Yabe	Renewable Energy Cycle by Sun and Magnesium
10	Dec.10	S.Tomioka	Introduction to Space Launch Vehicles and their Propulsion System
11	Dec.17	S.Tomioka	Air-breathing Engines for Future Launch Vehicles
12	Jan.7	T.Kohno	Medical Application of Heavy Ion Beams
13	Jan.17	H.Kanamori	Ultra low energy beam physics: "Cold neutral atom and molecules
14	Jan.21	T.Suekane	Geological storage of carbon dioxide
15	Jan.28		Exercise (tentative)

No. 1 Tuesday    No.13 Thursday

To Students,

The grade will depend on your attendance rate and report.

Submit **4 reports** on different 4 themes (among topic or task provided by each lecturer)

Due date : **January 31**, 2013

Location : P.O.Box G3-38 (G3 Bldg. 1F) or G3-408 (Okuno's Office)

If any question, please contact Prof. Y. Okuno (yokuno@es.titech.ac.jp).