

International Discussion on a Smart Community
Summer Seminar of Toyota Technological Institute

Discussion Theme

A. Future Vision for Energy:

The accident at Fukushima nuclear power plants, which occurred due to the earthquake and tsunami in the Tohoku area, suggests that it will be difficult to install further nuclear power plants in Japan. Therefore, in order to overcome this difficulty of further installation of nuclear power plants in Japan, new clean energy that will be replaced with nuclear energy should be developed and introduced.

Discussions about energy sources for the future should be made from various viewpoints such as their energy potential, efficiency, cost, and cleanness.

B. Future Vision for the Automobile:

The earthquake and tsunami which occurred in the Tohoku area have shown the difficulty of effective transportation of food, fuel, and clothes to refugees in the heavily damaged area. On the other hand, further development of green cars such as hybrid cars, electric cars and fuel cell powered cars is necessary.

Therefore, vehicles of the future should be discussed from various viewpoints such as energy resources, matching to society or infra structures, less carbon emission, GPS tracking and so forth.

C. Future Vision for Communications:

After the earthquake on March 11, 2011, it has become apparent that the communications by equipment such as telephones and mobile phones did not work around the damaged area. And lack of information caused a secondary disaster to the sufferer. Therefore, in order to overcome such problems, improvements in communications are necessary.

Discussions about communications for the future should be made from various viewpoints such as quality, volume, reliability, and security of communications.

1. Schedule Prior to Discussion

- 1.1 Submission of preferable discussion themes by students
- 1.2 Decision of members of each discussion group by TTI
- 1.3 Collection of information, brain storming about future direction for discussion themes, and clarifying ideas by students, including internal discussion in your university.

2. Discussion Schedule in TTI

2.1 Guidance and group discussion (1): **10:30-12:00 on August 18**

2.2 Group discussion (2) and preparation of presentation:

17:00-18:30 on August 19

2.3 Group discussion (3) and preparation of presentation:

on August 20

2.4 Presentations by 3 groups and discussion: **14:00-16:00 on August 23**

Each 15min presentation and 15min discussion