

## FY2017 Interdisciplinary Lecture “Roadmapping for Research Strategy”

2 days course on June 1<sup>st</sup> (Thursday) – June 2<sup>nd</sup> (Friday), 2017

### 1. OUTLINE

This course consists of workshops and lectures, aiming at developing a future vision and strategic thinking for your own research by creating a Roadmap. You will draw a comprehensive, panoramic view of your research as well as obtain methodologies of strategic thinking. (Regarding a roadmap, please refer the "Suggested readings".)

### 2. Schedule

Schedule	Min.	Lectures and workshops
6/1 9:30-11:00	90	Lecture 1: "My research and relationship with society: Space and Earth"
6/1 11:10-12:40	90	Lecture 2: "My research and relationship with society: Human, Society and Future"
6/1 13:40-15:40	120	Lecture 3: "Meaning of strategic thinking" "What is a roadmap?" "Methodology of roadmapping" "Procedure of the workshop"
6/1 16:00-17:30	90	Roadmapping Workshop 1: Set your Vision, think the relations with social elements (presentation)
6/1 17:30-18:30	60	Roadmapping Workshop 2: Think the relations with applied research elements (presentation)
6/1		Self-study: Review what you learned on the first day by yourself, prepare your roadmap outline for the second day.
6/2 9:30-10:30	60	Roadmapping Workshop 3: Think your basic research elements (presentation)
6/2 10:30-11:30	60	Roadmapping Workshop 4: Creating grids, link among elements, and creating a roadmap
6/2 11:30-15:30 (incl. lunch time)	180	Roadmapping Workshop 5: Completing a roadmap, creating a scenario
6/2 15:30-18:00	150	Roadmapping Workshop 6: Final presentation

Pre-assigned homework : From year 2000 to 2030 approximately, summarize your thinking for the social situations related to your research or research field from the multifaceted views, and list them up in a A4 size sheet and bring it on the first day. List the elements in chronological order. The homework will be used in the class.

Scope of “Your research” in the above sentence means your research and/or your laboratory/school”.

Therefore, list the social situations which relate to them.

References:

- Phaal, R. et al. (2011). Roadmapping for Strategy and Innovation: Aligning technology and markets in a dynamic world, University of Cambridge:UK.
- Phaal, R. & Aughton, D.(2013). Roadmapping for strategy and innovation, [http://www.ifm.eng.cam.ac.uk/uploads/Events/Briefing\\_Day\\_2013/Roadmapping.pdf](http://www.ifm.eng.cam.ac.uk/uploads/Events/Briefing_Day_2013/Roadmapping.pdf)
- Dreborg, K. (1996) "Essense of backcasting," Futures, vol.28, No.9, pp.813-828.
- <https://www.nasa.gov/langley/earth-science-vision-roadmap> (Example of roadmap, NASA)
- <http://www.meti.go.jp/committee/materials2/downloadfiles/g90427b13j.pdf> (Example of roadmap, pp.5-9, Japanese)

3. Venue:

National Institute of Informatics (NII) 20F 2001A・2001B (2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo,101-8430)

4. Lecturers :

SOKENDAI

Satoshi Imura, Professor, Department of Polar Science

Hideaki Takeda, Professor, Department of Informatics

Miwa Nishinaka, Research Associate Professor, The Center for the Promotion of Integrated Sciences.

Mutsumi Komatsu, Assistant Professor, The Center for the Promotion of Integrated Sciences.

Sayaka Uchikawa, Assistant Professor, The Center for the Promotion of Integrated Sciences

5. Eligible students: For all grades of master's and doctoral courses in SOKENDAI and other universities. The students in other universities can participate only for those who approved by SOKENDAI. In case of large number of applicants, prioritized by SOKENDAI students.

6. Credit: 1

7. Language: Mainly in English, subsidiarily in Japanese

8. How to apply

Please send below documents to the CPIS office([cpis-office@ml.soken.ac.jp](mailto:cpis-office@ml.soken.ac.jp)) via E-mail attached.

- Application form for the lecture
- Application form for reimbursement(Local Remittance Registration application)

※For those who have not registered account information.

E-mail Address: [cpis-office@ml.soken.ac.jp](mailto:cpis-office@ml.soken.ac.jp)

Deadline: May 19, 2017

- Financial support: For SOKENDAI students, travel expenses and accommodation charges are supported by SOKENDAI under the university regulations. Expense will be reimbursed. Please mail the receipt for

accommodations to the CPIS office, which is necessary in accordance with the procedure for payment of student travel expenses. Meal costs etc. will not be paid.

- The travel expense from the affiliated institution to the venue (NII) is paid at the amount of the student discount fares applied when the JR boarding point exceeds 100 km one way, so please ask for the application of student discount to the department office of each institution.
- \*Accommodation facilities are not prepared by SOKENDAI. If you need to reserve a hotel on May 31<sup>st</sup>, June 1<sup>st</sup>, and/or June 2<sup>nd</sup>\*, please arrange the accommodation by yourself. (Maximum payment is 8,700 yen per night) Meal costs etc. will not be paid, so mail the receipt containing only the accommodation fee to the CPIS office within one week after the lecture is over. If the accommodation fee and other fees (meal fee etc.) are listed on the same statement, please mail the full statement that shows the each amount of items.

#### 9. Remarks

- Your supervisor's signature or seal is required in the Application form. Please ask your supervisor for approval to attend this lecture. When you send your application form to CPIS office, add cc to your supervisor.
- The subject course will be registered by the submission of the Application Form.
- The personal information in the application form will be used only for the lecture's improvement, and will not be used for any other purposes. Any of your personal information will be protected against unauthorized access, loss, leakage, or other risks under a strict personal information handling practices, and will not be published with personally identifiable data.
- We will send you a confirmation e-mail upon receipt of your application form by return. If you do not receive our confirmation e-mail even though it has been over one week.

#### 10. Contact

##### ◎Info regarding the lecture

Miwa Nishinaka, Research Associate Professor, The Center for the Promotion of Integrated Sciences. Tel: 046-858-1962 E-mail: nishinaka\_miwa@soken.ac.jp

##### ◎Info / Where to apply

CPIS office of SOKENDAI

Tel: 046-858-1629/1657 E-mail: cpis-office@ml.soken.ac.jp

To: SOKENDAI(The Graduate University for Advanced Studies), CPIS Office,

Postal Address: Shonan Village, Hayama, Kanagawa 240-0193 Japan

---

\* If you need to leave your home before 7:00 am or if you come home after 11 pm, your accommodation fee will be paid.

Basically, calculate the first route searched by Ekispert for Web(<https://roote.ekispert.net/en>) from the affiliated institution to the venue (Jimbocho or Takebashi, NII).