

# **Evaluation Report**

**CIRMM Evaluation Committee**

**Thursday July 30, 2015**

- 1) Suggested Evaluation Items
- 2) Scientific Committee
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Institute of Industrial Science, The University of Tokyo  
Room Dw-601, Institute of Industrial Science

## **1) Suggested Evaluation Items**

The level of scientific achievements obtained in the Center.

The level of international collaboration activities of the Center.

The management of the Center.

In general, has the Center accomplished its mission?

Suggestions and comments to the plan of the new center.

## 2) Scientific Committee

### Experts :

**Dr. Philippe Codognet** Director  
Regional Office of CNRS for North Asia

**Dr. Weileun Fang** Distinguished Professor  
Power Mechanical Engineering Department  
National Tsing Hua University (Taiwan)

**Dr. Makoto Ishida** Vice President on Research Affairs  
Professor  
Dept. of Electrical & Electronic Engineering  
Toyohashi University of Technology

**Dr. Kazuya Masu** Professor  
Frontier Research Center, Tokyo Institute of Technology  
Precision and Intelligence Laboratory  
Tokyo Institute of Technology

**Dr. Hiroshi Miyajima** General Manager  
Therapeutic Products Department  
Olympus Corporation

## 3) Participants

FUJITA	Hiroyuki	CIRMM	Utokyo
FUJII	Teruo	CIRMM	Utokyo
KAWAKATSU	Hideki	CIRMM	Utokyo
LECLERC	Eric	CIRMM	Utokyo
KIM	Beonjoom	CIRMM	Utokyo
TAKEUCHI	Shoji	CIRMM	Utokyo
SAKAI	Yasuyuki	CIRMM	Utokyo
TOSHIYOSHI	Hiroshi	CIRMM	Utokyo

## 4) Agenda

8h30 - 9h00	Reception/coffee
9h00 - 9h50	Welcome and Overview
9h50 - 12h05	Scientific Activities
9h50 - 10h10	LIMMS, EUJO-LIMMS, and NAMIS activities (H. Kawakatsu)
10h10 - 11h20	SMMiL-E (funding) (E. Leclerc)
10h20 - 10h50	Creation of CIBis and SMMiL-E (R&D) (Y. Sakai)
10h50 - 11h20	Research Activities on Physical and Engineering Applications of MEMS (BJ. Kim)
11h20 - 11:50	Research Activities on Biomedical Applications of MEMS (S. Takeuchi)
11h50 - 12h05	Prospects for New CIRMM (H. Toshiyoshi)
12h05 - 14h00	Lunch
14h00 - 15h00	Lab Visit (Committee)
15h00 - 17h00	Closed Evaluation Session (Committee)
17h00 - 17h30	Evaluation Report (All)
17h30 - 17h40	Acknowledgement Remark (H. Fujita)
17h40	Committee adjourn

## 5) Conclusions

(Presented by Dr. Philippe Codognet)

We give our comments and opinion on three points. The first point is evaluation of research achievement. The second point is evaluation of the management and organization of CIRMM. The third point is some advice for the new CIRMM, the next step.

## **I. Evaluation of the research achievements**

### 1. Basic evaluation of the research

1.1 The research achievements are very good in terms of publication and also in terms of budget and funding. There is one project with the budget of ten million dollars of funding.

1.2 Also the evaluation committee recognizes that there is a very good academic impact of CIRMM. That means that everyone in CIRMM, any professor and even a younger associate professor, is well established in their academic community.

### 2. Particular characteristics of CIRMM

2.1 We found that there is a very good incubation ability of senior professor, with which, over the years, a young professor is becoming more matured and then becomes a senior professor in their domain creating more new approaches, receiving bigger grants and conducting larger projects.

2.2 CIRMM is as an organization that is not just a collection of individual people but there is a real collaboration. There is some sharing of knowledge, of networking, of course of equipment, and of some other things. The younger professor can be matured in the environment and can reach a very high level.

2.3 Another good point of CIRMM is the impact onto other fields. For example, in the study of instrumentation, their technique and technology developed in CIRMM are very useful in other domains than the pure domains of the research in CIRMM. It is a service to the larger science community outside of CIRMM.

### 3. Collaboration with industry

3.1 We remark that the collaboration with industry is really bottom-up. It depends on the professors. Some professors manage very good collaboration with industry but some others do not. It really depends on each subject because in CIRMM you have a very good variety of subjects and people.

## **II. Evaluation of the management and organization**

1. As was already mentioned in the first point, the organization is well done; it helps professors to become successful. Ideas and knowledge circulate quite well inside CIRMM. Also large networking, sharing facilities, and sharing a lot of other achievements have worked efficiently.

2. This is successful also more generally because of the structure and the culture of IIS, which is very much different from the rest of the universities in Japan. The structure of IIS is very flat, which allows the collaboration and a good organization. Also we have to recognize that a leadership of Professor Fujita. We think it is a very strong point to have smooth management of CIRMM with the agreement of all members.

3. The third point is that CIRMM is very good in establishing networking, of course, with France, especially at Lille, but more generally with European countries by EUJO/LIMMS

and also with all the countries in Asia by NAMIS. This ability of developing and keeping a very strong network over the years as well as extending to new partners is a very good point in the organization of CIRMM. CIRMM is very good to use this network to go more deeply in a concrete project. There are very good examples such as the connection SMMiL-E in Lille and EUJO-LIMMS with EU countries. SMMiL-E is a very new attempt in Bio-MEMS in collaboration with a hospital. So the development and maintenance of the network makes an opportunity to a concrete project.

### **III. Advice to new CIRMM**

1. A new structure will cover more topics and involve new faculty members of IIS which are not included currently in CIRMM. Maybe there will be some difficulty in managing this new structure with new members and especially new domains. Then, our advice would be to recruit a specialist of management to help managing this new group CIRMM. You may recruit some URA, university research administrator, or some person from industry, who is a good manager.
2. Other advice is to develop the collaboration with industry not only in a bottom-up but also in a top-down manner. You may have to invent some new kind of industrial collaboration. Anyway, please try to be closer to industry, to be close to application of the technology in real world and to perform applied research on some topics directly benefit to the society.
3. One important thing is to keep some relationship with CIBiS and with SMMiL-E. Even though we understood that bio MEMS is matured and that a different center was created, please maintain a close relationship with the new center. In a similar way, keeping very good international collaboration is very important.

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