

NEWS

2017.3.11

Holding a Symposium of Research Organization for Next-Generation Education (NGE)



Opening address by Prof. Deguchi, the president of TGU



Lecture by Mr. Suzuki, the Special Adviser to the Minister of Education, Culture, Sports, Science and Technology



Lecture by Mr. Shirai, analyst at Directorate for Education and Skills

On Saturday March 11, 2017, a symposium called “The way of teaching and learning to foster 21st century competencies”, was held at Tokyo International Forum (Yurakucho).

At the symposium, Mr. Kan Suzuki (Special Adviser to the Minister of Education, Culture, Sports, Science and Technology) and Mr. Shun Shirai (Analyst at Directorate for Education and Skills, OECD; at present, Head of the Office for Curriculum Planning at the Ministry of Education, Culture, Sports, Science and Technology) gave lectures respectively, to the opening address by Professor Toshisada Deguchi, the president of Tokyo Gakugei University. After the lectures, the progress reports of researches followed in the order of the explanation of the research abstract (by Professor Kazumi Yamada). The order was as follows: how we capture the competencies (by Associate Professor Takahiro Sekiguchi), the analysis of interaction among competencies (by Associate Professor Taisuke Hosokawa and Lecturer Kentaro Tsukamoto), the introduction of the online moving-image system (by Research Associate Yoshimitsu Miyazawa), the evaluation of the competencies (by Professor Shinkichi Sugimori and Associate Professor Yoshiaki Kajii). Next, the teachers who taught the

lessons (Mr. Shinya Ueda at Oizumi elementary school and Ms. Kayo Ueno at Koganei junior high school, affiliated to Tokyo Gakugei University) reported their effects, problems, and suggestions for further research. Taking these reports into account, Professor Masahiro Nasu (at Sophia University), Mr. Masanori Hiramoto (the president of Yokohama city Urashima elementary school), Mr. Shun Shirai (OECD analyst), Professor Masahiro Kamata, and Associate Professor Masami Hayashi (at Tokyo Gakugei University) discussed the outcome of the project and the way of teaching and learning to foster 21st century competencies (moderated by Associate Professor Takahiro Sekiguchi). Because the discussion went along with the 11 points about competency fostering, it was highly regarded as a substantial summary of opinions. Finally, the address by Professor Keiji Matsuda, the vice-president of Tokyo Gakugei University, closed the symposium. There were around 300 attendance that enthusiastically stayed until the very end of the symposium.

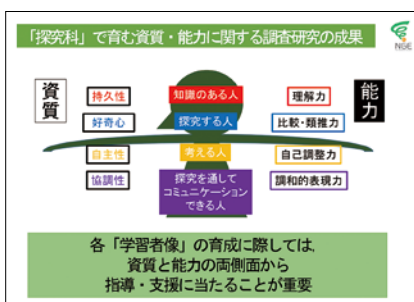
According to the questionnaire, our present outcomes were well understood and our future endeavor is much expected. Also, the moving-image distribution system garnered high interest. Additionally, many requested the attendance at the next symposium, so we have already started preparation for the event (will be held on March 10, 2018 at Hitotsubashi Hall (at Takebashi)).



Panel discussion

REPORT

Proceeding the Research on evaluation methods for future education



Competencies fostered in inquisitive learning

Department 2 of our project is conducting research on fostering and evaluating the competencies, considering the next Course of Study. A research team led by Associate Professor Yoshiaki Kajii found the competencies that were fostered in inquisitive learning, and clarified the interrelationship among them, by means of analyzing the data

from every grade of pupils through the cooperative research with Oizumi affiliated elementary school. In the present school year, they are going to propose and practice such ways of evaluation of said competencies (e.g. creating rubrics and learning evaluation sheets).

A team led by Professor Yasuhiko Morimoto created the model of teaching and evaluation that illustrated what type of learning record (“e-portfolio”) should be gathered by means of ICT based collection method, and how teachers should do this. In the present school year, they are going to examine the model by applying it to actual lessons. Additionally, they will propose another evaluation tool that is based on the item response theory.

Both research teams attained better results than expected by the efforts of Research Associates Yoshimitsu Miyazawa and Guxin Zheng.



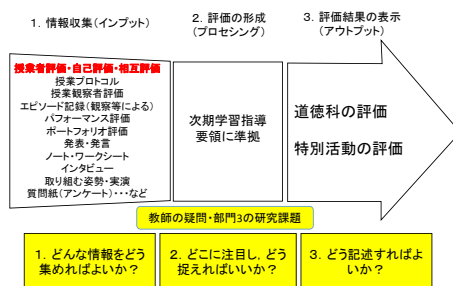
Research Associate Miyazawa, operating the evaluation tool (under construction)

REPORT

Considering the evaluation in “special subject: moral education” and “special activities”

Department 3 of this project is developing a support system for teachers so that they can smoothly make descriptive evaluations in “special subject: moral education” and “special activities” to write on school reports and cumulative guidance reports under the next Course of Study. The difficulties and anxiety associated with the evaluations are pointed out within both subjects/fields. The evaluation of moral education has far different aspects from other subjects, such as empathetic understanding, encouraging evaluation to support children’s growth, no viewpoint, and intrapersonal evaluation.

They are currently working on “the extraction of evaluation words by means of text analysis” on both subjects/fields. By collecting and analyzing various evaluation words, they are trying to reveal what kind of ideas each word is (possibly) used to indicate. Hitherto analysis has revealed that the words used for the evaluation in current moral education classes will be helpful in the evaluation under the next Course of Study. They are going to analyze the evaluation under actual teaching circumstances, and attempt to use the evaluation words that are created as a result of the analysis. Lastly, the outcomes will be arranged as examples of the usage of evaluation words.



Research questions of department 3

REPORT 21st century Competency Development Online Moving-image Service (21CoDOMoS) is being prepared for publication

Our project considers how to spread examples of lessons which competencies are fostered in. In most cases, the lesson examples are published as books and teaching plans. In recent years, however, by using a movie distributing system on the Internet, we are actually able to see how a teacher poses questions, and how they acted during their lessons. Our project has considered the better way of movie distribution, and concluded that there should be situations like demonstration lessons on movie distribution systems.

We have developed a demonstration-lesson-resembled movie distribution system, and named it "21CoDOMoS" after the initials of "21st century COmpetency Development Online MOving-image Service." The system: (1) shows not only how a teacher acted, but how students acted, by providing the visuals of the teacher, students, and the whole classroom at the same time; (2) delivers commentary by a teacher who teaches the lesson in order to clarify the intention of the lesson, (3) enables discussion with many observers by writing and reading comments on the lesson. As they get prepared, the system is going to start delivering its content from around August, 2017. Multiple boards of educations and other organizations will announce the precise time and the contents of the publication.



Moving-images on "21CoDOMoS"

NEWS The project's endeavor was broadcasted on *News Watch 9*, NHK
2017.1.9



News coverage by NHK

Last September, we received news coverage on a science lesson at Tokyo Gakuegi affiliated Setagaya junior high school (taught by Mr. Taiki Takada; "many materials and their property" for 1st grade students), and the analysis of the lesson given by

the NGE members (featured in the NGE REPORT No.3, published at October 17th, 2016).

On January 9th, 2017, the project's execution was broadcasted at *News Watch 9* (from 9 p.m. at NHK General TV). On the program, as well as the lesson itself, commentaries by Professor Masahiro Kamata (Science Education) and Mr. Taiki Takada (Science), and the lesson analysis with Associate Professor Yukio Nakano (Environmental Science) and Associate Professor Takuya Miyuchi (Center for the Research and Support of Educational Practice) were featured.

NEWS An Exchange meeting among the three departments of the project took place
2017.2.22

Currently, the project consists of three departments: department 1 for the research on fostering the competencies through each subject and field, department 2 for the research of various ways of evaluation (self-evaluation, evaluation by ICT, performance evaluation, etc.), and department 3 for the evaluation in moral education and special activities.



Exchange meeting

On Wednesday February 22, 2017, an exchange meeting among three departments took place at Tokyo Gakuegi University, so that they could exchange the information with among each other, and apply them in the future research within each department. The meeting was held as a part of faculty development training at the university, and about 30 people participated. From department 1, Lecturer Kentaro Tsukamoto, Associate Professor Taisuke Hosokawa, and Research Assistant Kazutoshi Fujikawa reported the results of their analysis on the processes of fostering "curiosity," and the results of the measure of effectiveness in the lessons. From department 2, Professor Yasuhiko Morimoto gave the report about how to model evaluation in active learnings, and Associate Professor Yoshiaki Kajii reported about attitudes/values that can be fostered through inquiry-based learning. From department 3, Associate Professor Masami Hayashi and Associate Professor Naohiro Matsuo reported the results of text analysis for evaluation in moral education and special activities. The contents of the reports and future research directions were discussed.

NEWS Explained the relationship with PISA2018 at CRET/ Benesse Symposium
2016.12.15

On December 15, 2016, at Fukutake Hall (Tokyo University), there held "CRET/Benesse Symposium 2016: The Future Direction of Japanese Education -In anticipation of a post 2030 World-." Research Associate Kampei Hayashi (Shinshu University) reported the results of PISA 2015, and Professor Joachim Funke (Heidelberg University) gave the keynote speech on the system competencies. Thereafter, Professor Hajime Shirouzu (Tokyo University),

Dr. Jean-Paul-Reeff (German Institute for International Educational Research: DIPF), project reader Manabu Kishi and Mr. Patrick Newell (one of the co-founders of TEDxTokyo) respectively gave reports during the panel discussion entitled "Future ways of fostering and evaluating attitudes/values." A lively discussion on the constituents of global competencies, the prospects and constituents of PISA 2018, the ideal ways of education and teacher education, etc. followed (moderated by Mr. Kenichi Arai [chief director of CRET]).



Introduction of the project

INFORMATION

- 1 The 5th OECD IWG (Informal Working Group) Meeting
Date: from May 16 (Tue.) to 18 (Thurs.)
Venue: Portugal (Lisbon)
- 2 OECD/Japan Seminar
Date: July 1 (Sat.)
Venue: MEXT Auditorium (3rd floor)

- 3 International Student Innovation Forum 2017
Date: from August 2 (Wed.) to 4 (Fri.) Venue: National Olympics Memorial Youth Center
Organized by: ISN (Japan Innovative Schools Network supported by OECD)
- 4 The 6th OECD IWG (Informal Working Group) Meeting
Date: Middle of November Venue: Paris
- 5 The 2nd Symposium of Research Organization for Next-Generation Education (NGE), Tokyo Gakuegi University
Date: March 10 (Sat.), 2018
Venue: Hitotsubashi Hall (Takebashi Sta. of Tokyo Metro Tozai Line)

