

# 「International Micro plastics Youth Conference 2019

「The Sea and Japan 2019」



Date/2019 July 21th (Sun)

Place/Kyoto University Centennial Hall

Sponsored by /Executive Committee of International Micro plastics Youth Conference

Co-sponsored by /Fukui Prefectural Wakasa High School · Fukui Prefectural Board of Education /Kyoto University of Graduate School of Global Environmental Studies

/Asia Marine Education Association

This project is supported by The Nippon Foundation The Project of the Sea and Japan

10:00 Reception (The Entrance of Kyoto University Centennial Hall, 2<sup>nd</sup>Floor)

10:50 Lecture “Nobody knows the Environmental Fate of Plastic Garbage”

Associate Professor Shohei Tanaka, Kyoto University of Graduate School of Global Environmental Studies

12:00~12:50 Lunch

13:00 Poster Presentations

14:10 Workshop · Discussion · Proposals: of How to Solve Marine Problems

16:45 Closing Ceremony

# International Micro plastics Youth Conference 2019 The Sea and Japan 2019

<Message from the Leader of the Executive Committee>

Welcome to international micro plastics youth conference 2019 the Sea and Japan !

Thank you for coming to the forum from not only all over Japan but also all over the world. I am glad to have such a wonderful opportunity to discuss about problems of micro plastics with high school students all over the world. I hope we can have new ideas through the discussion. We can even get new wonderful ideas by sharing with group members.

In order to practice what students from America told me, “it is important to take actions as well as study”, let’s discuss what we have studied in our study and daily lives, and share new ideas about how to solve problems of micro plastics. Let’s make new ideas which all of you can put into practice anytime anywhere, practice the idea in your real life. Through this conference, I hope your studies will improve. Let’s share ideas with each other, and develop ourselves. I would like all of us will make friends and make good relationships.

Azu Kutuki

Fukui Prefectural Wakasa High School 2<sup>nd</sup> grade student



<Message from the Leader of the Executive Committee in America>

Animo Leadership Marine Biology Club is composed of Animo Leadership Charter High School students in Lennox, California. Our goal, and challenge, is to inform the public about plastic pollution and cooperate with them to come up with solutions to reduce, recycle and prevent plastic environmental pollution. The club has had multiple teams, each with their own objective, tasks and goals but all involving microplastic data collection or education. Our focus is the analysis, quantity and type of the molecular composition of plastics obtained at local beaches, harbors, and oceans. Through the use of mass spectrometry, we hope to determine possible origin of the plastics but certainly which polymers and which type of plastics mimic hormones (Estrogen and Testosterone) and are disruptors to our endocrine system. We hope to be a part of this conference in order to possibly come up with some solutions and bring those solutions here with us to California, to implement some change into our society in order to save our environment



Jose Velasquez  
12th Grader  
Animo Leaders charter high school

< Message from the Leader of the Executive Committee in Taiwan>

The problem of micro-plastics has permeated our lives and has gradually gained our attention. In addition to understanding the reasons, we need to have more active ways to improve this problem. We are very happy to discuss with high school students from all over the world. The knowledge we have learned in general will be share here. Learning is not just for exams, but for what we have learned to solve problems. I believe that as long as everyone's strength is gathered, everyone can become a doctor of earth and hope to spread it out through this conference. There is only one earth, and everyone needs to be guarded together.



HSIEH, CHEN-JUNG  
Taiwan, Keelung Municipal  
NuanNuan Senior High School



## Our Path So Far

We have studied the Sea pollution of micro plastics since 2016. First, we counted the number of thrown-away plastics in my town, Mae Hama. Some of the plastics were those which we had thrown away or people in other prefectures or countries were supposed to have thrown away. In 2017, in order to solve the problem, we realized that it is important to cooperate with people from other countries, so we invited high school students in San Francisco, Los Angeles, America so that we can solve the problem cooperatively. In our discussion, we tried to find the way to solve the problems, went to ask researchers' opinions, and established the way to solve the problems. Then, we started our challenges by dividing the groups of the sea, beaches, and sea creatures. We exchanged our ideas by KYPE meeting or e-mails, so that our relationships with Singapore and the Philippines have been strengthened. In 2019, we made poster presentations in National Taiwan Ocean University and the University of California, Barkley. We were inspired by what a student in Animo Leadership Charter High School told us, "It is important to take action as well as study", hence we decided to hold the forum.



<Lecture 10 : 50 – 12 : 00> International Multipurpose Hall I · II

Lecture Theme 「Nobody knows the Environmental Fate of Plastic Garbage」

Kyoto University of Graduate School of Global Environmental Studies  
Earth-friendly technology school environment-friendly industrial theory  
Associated Professor Shuhei Tanaka



Since plastics were invented in France in 1835, they have been improved. Now, more than 100 kinds of plastics are in the world, and they bring benefit to our daily lives. However, when plastics are thrown away, part of them are in creatures, and some of them may come back to us again. Human beings are part of the ecosystem, and we should create the society in which we live with creatures and plants together. In this lecture, I would like to introduce the case of micro-plastic study as easy to understand as possible,

<Poster Presentation 13 : 00 – 14 : 10> International Multipurpose Hall I · II

Students come from many parts of the world, and they make poster presentations about micro-plastics. Let's discuss together.

U.S.

Animo Leaders charter high school (Los Angeles)

Taiwan

NuanNuan Senior High School · Keelung High School · Badou High School

Japan

Tokaidai Takanawadai High School · Aomori Prefectural Aomori High School · Yamaguchi Prefectural Hagi High School · Hiroshima Prefectural Kokutaiji High School · Fukui Prefectural Wakasa High School

\* Poster session : p6

<Workshop · Proposals 14 : 10 – 16 : 45> International Multipurpose Hall I · II

**Theme: “What can we do to reduce micro-plastics?”**

We discuss the topic in groups, based on our study result and experiences. We will discuss how to take actions in our society, share each group ideas, and make proposals.

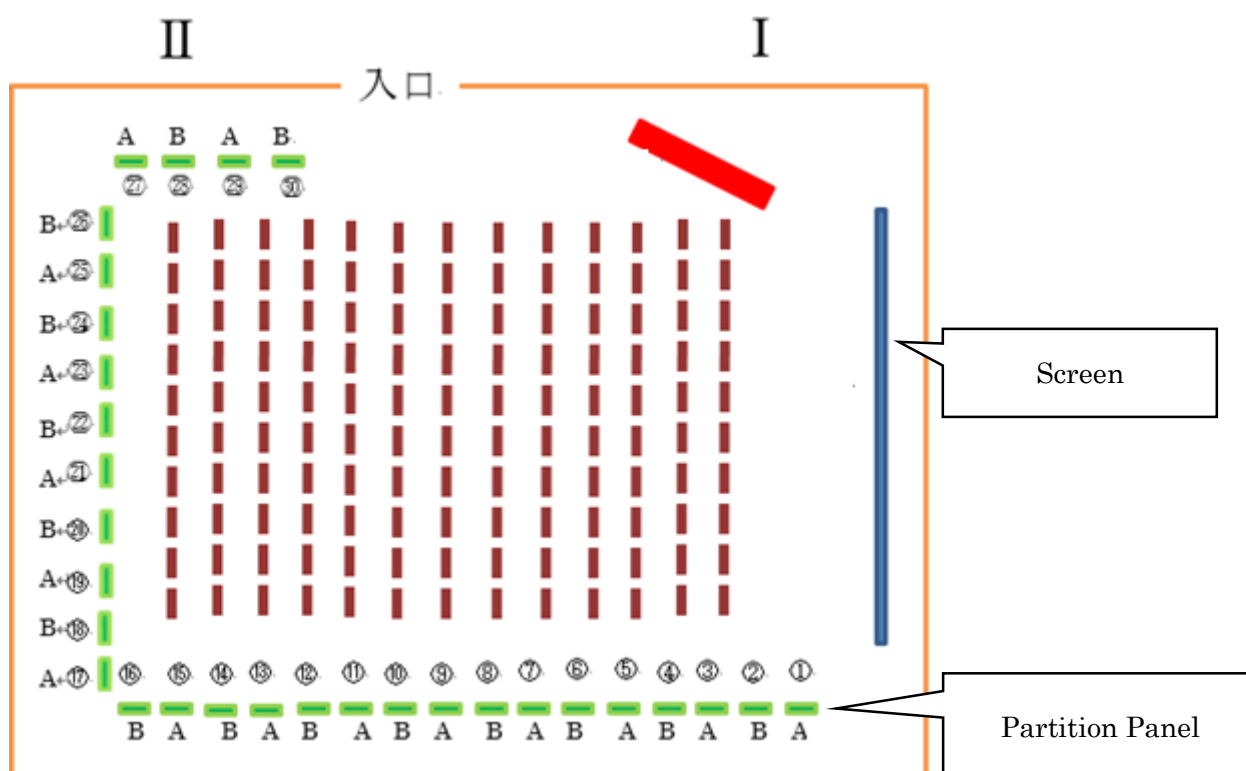
\* Group Member : p6

## Kyoto University Centennial Hall Second Floor Map



- \* Please be seated from the front
  - \* Students' waiting room is Waiting room IV.
  - \* Teachers' waiting room is Waiting room V
  - \* In corridors, food and drink are not allowed.
- You can eat and drink in your waiting room.

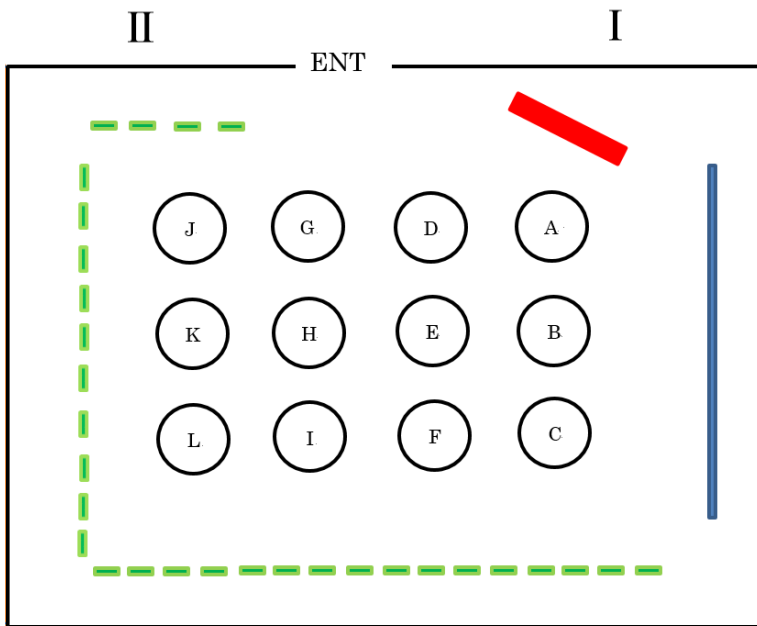
## Poster session



## Work shop Member

group	Facilitator	member					
A	山中慎太郎, 村松愛梨	福智隆史	曾信恩	陳霖根	何亞臻	胡 はるか	出口 千尋
B	菅原すみれ, 古谷梨乃	横山滋也	曾品皓	陳芳儀	李品勳	廣兼 颯哉	
C	薮本爽良, 東野夏実	西山宝輝	蘇宥銓	黃薇妮	林沛辰	松原 優真	
D	東野良治, 芝ひまり	高橋 あゆみ	洪藝展	許文嘉	陳昱潔	松原 健太	
E	島田和磨, 佐藤まりな	網谷 舞	楊駿龍	林恩	Devon Patterson	柚木 沙都	
F	堀口唄葉, 岡本和記	堤 優貴	陳昱仰	李昀龍	Jose Velasquez	臼井 悠人	
G	塚本葉奈, 西村美砂樹	藤原 果奈	鄭昕丞	許景翔	澤田 強希	板屋 寿稀斗	
H	小北裕斗, 重田陽咲	西川辰昌	胡璇	魏祐楨	蛭名 俊介	中積 美香	
I	橋本若奈, 齋藤恵	亀井遥香	廖郡翎	李墩安	佐藤 秀斗	足立 海吏	
J	美濃愛実, 井上桃花	高木芹菜	柯景崴	林宸宇	石川 明香里	福尾 唯	
K	新谷嶺, 河合千花	川原壮留	張育慈	林奕丞	沼宮内さつき	浦谷 隆勢	
L	角田翔夢, 角野叶芽	田村 智紀	謝禎容	蔡慶享	内田 紀直	間島 裕登	

Work shop seat





## Participants

No	Nat	School	Position	Name	English Name	Note
1	台灣	Badou	Principal	黃致誠	HUANG, CHIN-CHENG	八斗高校
2	台灣	Badou	Secretary	黃玉如	HUANG, YU-JU	八斗高校
3	台灣	Badou	Teacher	許華娟	HSU, HUA-CHUA	八斗高校
4	台灣	Badou	Student	曾信恩	TSENG, HSIN-EN	八斗高校
5	台灣	Badou	Student	曾品皓	TSENG, PIN-HAO	八斗高校
6	台灣	Badou	Student	蘇宥銓	SU, YU-CHUAN	八斗高校
7	台灣	Badou	Student	洪藝展	HUNG, I-CHAN	八斗高校
8	台灣	Badou	Student	楊駿龍	YANG, JUNG-LONG	八斗高校
9	台灣	Badou	Student	陳昱仰	CHEN, YU-YANG	八斗高校
10	台灣	Badou	Student	鄭昕丞	CHENG, HSIN-CHENG	八斗高校
11	台灣	Badou	Student	胡璇	HU, HSUAN	八斗高校
12	台灣	Badou	Student	廖郡翎	LIAO, JUN-LING	八斗高校
13	台灣	Badou	Student	柯景崴	KE, JING-WA	八斗高校
14	台灣	Nuan-Nuan	Teacher	王嘉萍	WANG, CHIA-PING	暖暖高校
15	台灣	Nuan-Nuan	Student	張育慈	CHANG, YU-TZU	暖暖高校
16	台灣	Nuan-Nuan	Student	謝禎容	HSIEH, CHEN-JUNG	暖暖高校
17	台灣	Nuan-Nuan	Student	陳霖根	CHEN, MU-KEN	暖暖高校
18	台灣	Nuan-Nuan	Student	陳芳儀	CHEN, FANG-YI	暖暖高校
19	台灣	Nuan-Nuan	Student	黃薇妮	HUANG, WEI-NI	暖暖高校
20	台灣	Nuan-Nuan	Student	許文嘉	HSU, WEN-CHIA	暖暖高校
21	台灣	Nuan-Nuan	Student	林恩	LIN, EN	暖暖高校
22	台灣	Nuan-Nuan	Student	李昀龍	LEE, YUN-LUNG	暖暖高校
23	台灣	Nuan-Nuan	Student	許景翔	HSU, CHING-HSIANG	暖暖高校
24	台灣	Keelung	Teacher	蔡仲元	TSAI, JUNG-YUAN	基隆高校
25	台灣	Keelung	Teacher	蟻敏慧	YI, MIN-HUI	基隆高校
26	台灣	Keelung	Student	魏祐楨	WEI, YU-CHEN	基隆高校
27	台灣	Keelung	Student	李璦安	LI, CHING-AN	基隆高校
28	台灣	Keelung	Student	林宸宇	LIN, CHEN-YU	基隆高校
29	台灣	Keelung	Student	林奕丞	Lin, I-Chen	基隆高校
30	台灣	Zhong-Shan	teacher	閔柏盛	MIN, POU-SHENG	中山高校
31	台灣	Zhong-Shan	student	蔡慶享	TSAI, CHING-HSIANG	中山高校
32	台灣	Zhong-Shan	student	何亞臻	HO, YA-ZHEN	中山高校
33	台灣	Zhong-Shan	student	李品勳	LEE, PIN-SHUN	中山高校
34	台灣	Zhong-Shan	student	林沛辰	LIN, PEI-CHEN	中山高校
35	台灣	Zhong-Shan	student	陳昱潔	CHEN, YU-JIE	中山高校

36	USA	ALC	teacher	Mark Friedman	Mark Friedman	AnimoLeadeshprChater
37	USA	ALC	student	Devon Patterson	Devon Patterson	AnimoLeadeshprChater
38	USA	ALC	student	Jose Velasquez	Jose Velasquez	AnimoLeadeshprChater
39	Japan	TokaiTakanawadaiHS	student	澤田 強希	SAWADA, Goki	東海大学付属高輪台高校
40	Japan	TokaiTakanawadaiHS	Teacher	野口 大輔	NOGUCHI, Daisuke	東海大学付属高輪台高校
41	Japan	Aomori HS	student	蛭名 俊介	Ebina Shunsuke	青森県立青森高校
42	Japan	Aomori HS	student	佐藤 秀斗	Sato Shuto	青森県立青森高校
43	Japan	Aomori HS	student	石川 明香里	Ishikawa Akari	青森県立青森高校
44	Japan	Aomori HS	student	沼宮内さつき	Numakunai Satsuki	青森県立青森高校
45	Japan	Aomori HS	Teacher	山田 昭	Yamada Akira	青森県立青森高校
46	Japan	Hagi HS	student	内田 紀直	Utida Norinao	山口県立萩高校
47	Japan	Hagi HS	student	胡 はるか	Shou Haruka	山口県立萩高校
48	Japan	Hagi HS	student	廣兼 颯哉	Hirokane Fuuya	山口県立萩高校
49	Japan	Hagi HS	student	松原 優真	Matubara Yuusinn	山口県立萩高校
50	Japan	Hagi HS	Teacher	江上 嘉昭	Egami Yoshiaki	山口県立萩高校
51	Japan	Hagi HS	Teacher	夫婦石 敬	Fufuishi Takashi	山口県立萩高校
52	Japan	Kokutaiji HS	student	松原 健太	Matsubara Kenta	広島国泰寺高校
53	Japan	Kokutaiji HS	Teacher	福本 伊都子	Fukumoto Itsuko	広島国泰寺高校
54	Japan	FukuiPrefUniv	student	福智隆史	Takashi Fukuchi	福井県立大学
55	Japan	FukuiPrefUniv	student	横山滋也	Shigeya Yokoyama	福井県立大学
56	Japan	Shiga univ	student	西川辰昌	Tatumasa Nishikawa	滋賀大学
57	Japan	Nigata univ	student	高木芹菜	Serina Takagi	新潟大学
58	Japan	TUMSAT	professor	佐々木 剛	Sasaki Tuyoshi	東京海洋大学
59	Japan	TUMSAT	student	網谷 舞	Amitani Mai	東京海洋大学
60	Japan	TUMSAT	student	堤 優貴	Yuki Tutumi	東京海洋大学
61	Japan	TUMSAT	student	藤原 果奈	Rina fujihara	東京海洋大学
62	Japan	TUMSAT	student	西山宝輝	Nisiyama Houki	東京海洋大学
63	Japan	TUMSAT	student	亀井遥香	Kamei Haruka	東京海洋大学
64	Japan	TUMSAT	student	高橋 あゆみ	Takahashi Ayumi	東京海洋大学
65	Japan	TUMSAT	student	川原壮留	Kawahara Souto	東京海洋大学
66	Japan	TUMSAT	student	田村 智紀	Tamura Tomoki	東京海洋大学
67	Japan	Umikara	representative	西野ひかる	Nishino Hikaru	一般社団法人うみから
68	Japan	FukuiOomugickub	representative	重久弘美	Shigehisa Hiromi	福井大麦倶楽部
69	Japan	Ryukoku univ	associateprofessor	清水万由子	Shimizui Muyuko	龍谷大学
70	Japan	Ootemonngakuin univ	Lecturer	何 彦旻	Ka Enmin	追手門学院大学
71	Japan	Wakaa HS	student	島田 和磨	SHIMADA Kazuma	若狭高校
72	Japan	Wakaa HS	student	塚本 葉奈	TSUKAMOTO Hana	若狭高校

73	Japan	Wakaa HS	student	堀口 唄葉	HORIGUCHI Utaha	若狭高校
74	Japan	Wakaa HS	student	角田 翔夢	KAKUDA Shoma	若狭高校
75	Japan	Wakaa HS	student	角野 叶芽	KAKUNO Kaname	若狭高校
76	Japan	Wakaa HS	student	小北 裕斗	KOGITA Yuto	若狭高校
77	Japan	Wakaa HS	student	新谷 嶺	SHINTANI Rei	若狭高校
78	Japan	Wakaa HS	student	橋本 若奈	HASHIMOTO Wakana	若狭高校
79	Japan	Wakaa HS	student	東野 良治	HIGASHINO Ryoji	若狭高校
80	Japan	Wakaa HS	student	美濃 愛実	MINO Manami	若狭高校
81	Japan	Wakaa HS	student	村古 美佳	MURAKO Mika	若狭高校
82	Japan	Wakaa HS	student	藪本 爽良	YABUMOTO Sora	若狭高校
83	Japan	Wakaa HS	student	朽木 純	KUTSUKI Azu	若狭高校
84	Japan	Wakaa HS	student	菅原 すみれ	SUGAHARA Sumire	若狭高校
85	Japan	Wakaa HS	student	石倉 裕大	ISHIKURA Yuta	若狭高校
86	Japan	Wakaa HS	student	山中 慎太郎	YAMANAKA Shintaro	若狭高校
87	Japan	Wakaa HS	student	足立 海吏	ADACHI Kairi	若狭高校
88	Japan	Wakaa HS	student	佐藤 まりな	SATO Marina	若狭高校
89	Japan	Wakaa HS	student	芝 ひまり	SHIBA Himari	若狭高校
90	Japan	Wakaa HS	student	西村 美砂樹	NISHIMURA Misaki	若狭高校
91	Japan	Wakaa HS	student	東野 夏実	HIGASHINO Natsumi	若狭高校
92	Japan	Wakaa HS	student	古谷 梨乃	FURUTANI Rino	若狭高校
93	Japan	Wakaa HS	student	間島 裕登	MASHIMA Yuto	若狭高校
94	Japan	Wakaa HS	student	柚木 沙都	YUKI Sato	若狭高校
95	Japan	Wakaa HS	student	井上 桃花	INOUE Momoka	若狭高校
96	Japan	Wakaa HS	student	臼井 悠人	Usui Yuto	若狭高校
97	Japan	Wakaa HS	student	浦谷 隆勢	URATANI Ryusei	若狭高校
98	Japan	Wakaa HS	student	板屋 寿稀斗	Itaya Makito	若狭高校
99	Japan	Wakaa HS	student	岡本 和記	OKAMOTO Kazuki	若狭高校
100	Japan	Wakaa HS	student	河合 千花	KAWAI Chihana	若狭高校
101	Japan	Wakaa HS	student	齋藤 恵	SAITO Megu	若狭高校
102	Japan	Wakaa HS	student	重田 陽咲	SHIGETA Hisaki	若狭高校
103	Japan	Wakaa HS	student	出口 千尋	DEGUCHI Chihiro	若狭高校
104	Japan	Wakaa HS	student	中積 美香	NAKATSUMI Mika	若狭高校
105	Japan	Wakaa HS	student	福尾 唯	FUKUO Yui	若狭高校
106	Japan	Wakaa HS	student	村松 愛梨	MURAMATSU Airi	若狭高校
107	Japan	Wakaa HS	Principal	中森 一郎	NAKAMORI Ichiro	若狭高校
108	Japan	Wakaa HS	Teacher	渡邊 久暢	WATANABE Hisanobu	若狭高校
109	Japan	Wakaa HS	Teacher	兼松 かおり	KANEMATSU Kaori	若狭高校

110	Japan	Wakaa HS	Teacher	上村 幸久	UEMURA Yukihiisa	若狭高校
111	Japan	Wakaa HS	Teacher	小坂 康之	KOSAKA Yasuyuki	若狭高校
112	Japan	Wakaa HS	Teacher	澀谷 順子	SHIBUYA Junko	若狭高校
113	Japan	Wakaa HS	Teacher	高橋 慧	TAKAHASHI Satoshi	若狭高校
114	Japan	Wakaa HS	Teacher	大部 晴也	DAIBU Haruya	若狭高校
115	Japan	Wakaa HS	Teacher	野坂 卓史	NOSAKA Masashi	若狭高校
116	Japan	Wakaa HS	Teacher	村 彩乃	MURA Ayano	若狭高校
117	Japan	Wakaa HS	Teacher	上山 恵美莉	Ueyama Emiri	若狭高校
118	Japan	Wakaa HS	Technician	中村 佐代子	NAKAMURA Sayoko	若狭高校
119	Japan	Kyoto univ	professor	田中 周平	Tanaka Shuuhei	京都大学地球環境学学
120	Japan	Kyoto univ	student	岡本 萌巴美	Okamoto Moemi	京都大学工学研究科
121	Japan	Kyoto univ	student	近藤 泰仁	Kondou Ysuhito	京都大学地球環境学学
122	Japan	Kyoto univ	student	嶋谷 宗太	Shimatani Souta	京都大学工学研究科
123	Japan	Kyoto univ	student	清島 晴香	Kiyoshima Haruka	京都大学法学研究科
124	Japan	Osaka Kyouiku univ	associateprofessor	八田 幸恵	Hatta Sachie	大阪教育大学
125	Japan	Nippon Foundation		勝俣 創介	Katsumata Sousuke	日本財団海洋事業部海洋チーム