

2020 Laboratory introduction Kusaka Laboratory

Waseda university, Department of mechanical engineering School creative science and engineering

Graduate student in 1st master course Mahoko Nakatsuka





Laboratory view(1942)

2nd from the right : Professor Torajiro Watanabe Mr. Kusaka is the 6th professor.



- Professor Jin Kusaka(Research Director)
- Associate Prof. <u>NEW!</u> Akane Uemichi(Energy system)
- Associate Prof. Sok Ratnak(Gasoline engine)
- Instructor
 Kyohei Yamaguchi(Hybrid)
- Instructor
- Visiting Prof. Takao Fukuma(Control Catalyst)
- Visiting Prof. NEW! Takahiro Noyori(Vehicle testing)
- Visiting Assoc. Prof. Norihumi Mizushima(Vehicle model) NEW!

Beini Zhou(Diesel engine)

- Part-time instructor Kunikazu Ishiwatari(Car design)
- Secretary
 Shoko Suzuki Yumi Ishii
 Toshie Imai

5

- Doctoral course
- Master's course 23
- Bachelor 4th 14
- O Career(Master)

HONDA(2) • TOYOTA • KOMATSU(3) • JXTG • AVL • UD Tracks • TOSHIBA O Career(Bachelor)

NFW/

KOMATSU-JR Central-J BUS-SMBC NIKKO-Graduate School(6)





+ Laboratory

- Laboratory
 - Main room 58–226 Under ground room 63–B2
- Server room 61-363
- Engine bench



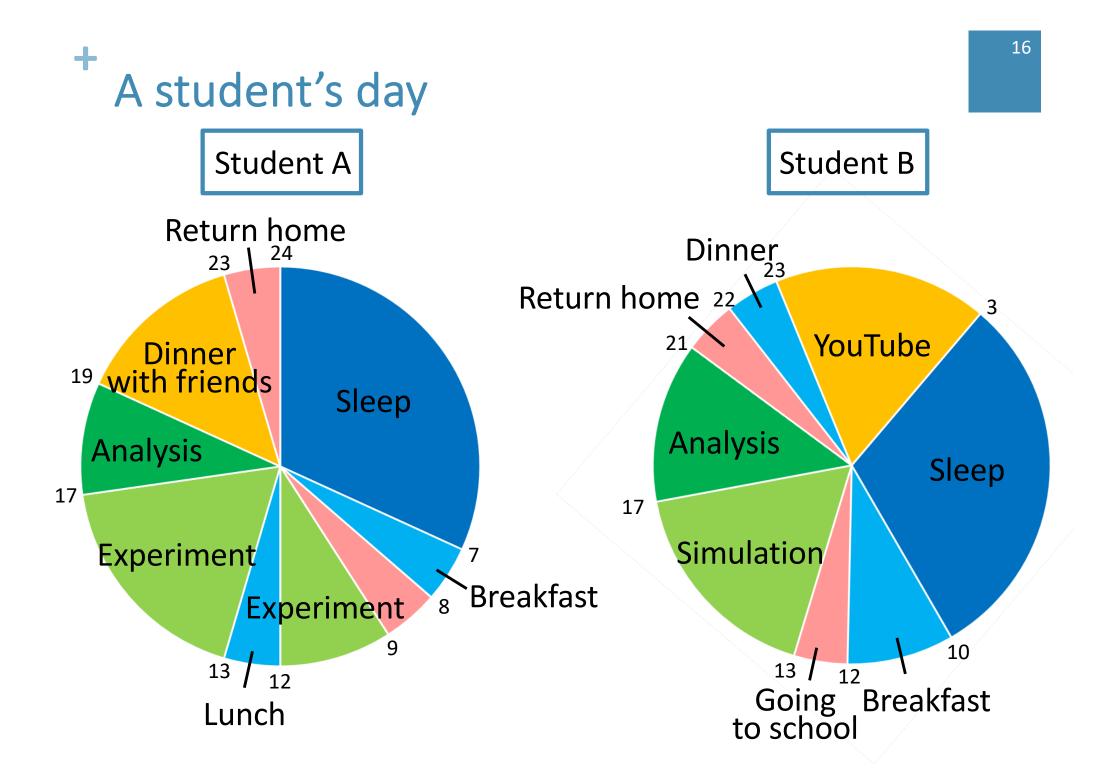


- 58-1F 1st~6th engine bench
- 63-B2 Laser measurement room

Single cylinder engine room

Multi cylinder engine room

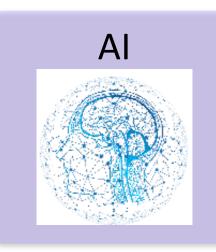
We never go to HONJO campus except for 1 group when they do experiments.





Vehicle model





Combustion



Catalyst

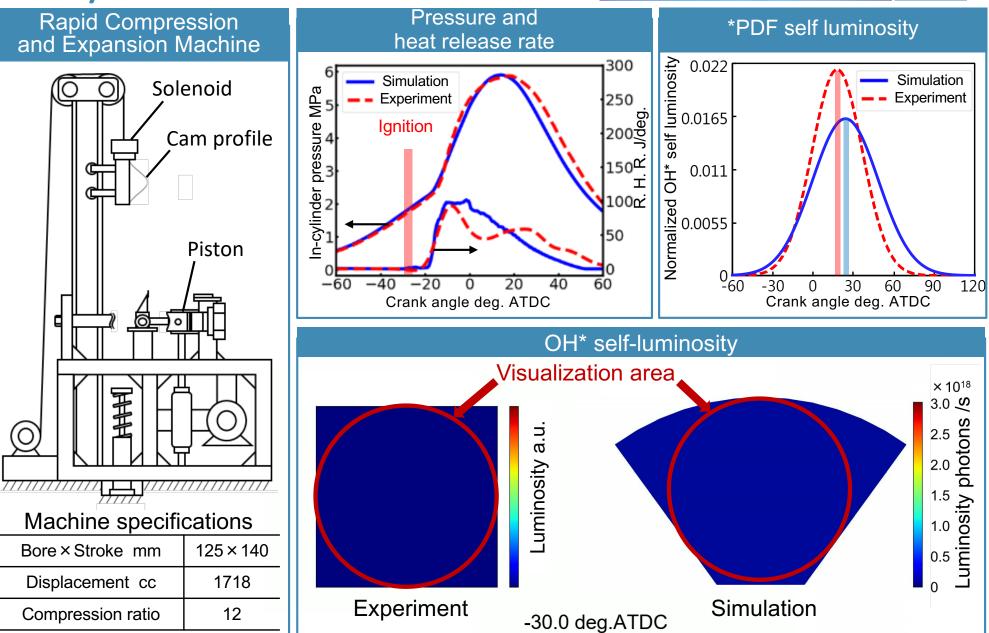


Driver model

Design

+ My research





+ The attractiveness of the Kusaka lab.

[Research relevance]

- Ideal for individuals who would like to actively participate in research related activities.
- Ideal for individuals who would like to know in detail about automobiles.
- ✓ Automobile equipped with our research techniques can be found running on the city roads.
- Experiments & simulations can be conducted with laboratory equipment.
- Study the concepts of thermal and fluid mechanics.
- ✓ Since there is no core time, research can be carried out with the team's pace.

[Job hunting]

- ✓ Can be an expert in automotive business world.
- ✓ Can get real stories about industries from industrial PhD students.
- ✓ Discussion about job hunting with industrial experts.
- ✓ Can participate in domestic and foreign internships.

[Life related]

- ✓ The professor is very cool!!!
- ✓ The professor has great sense of humour!!!
- ✓ In case of difficulties, the professor will come to rescue!!
- ✓ Friendly relationship between seniors and juniors!
- ✓ There are many events to participate inside and outside laboratory!
- ✓ If you fail to get a job, the professor will help you get one!! Be sure to join the company.









Basketball Camp Events



Basketball tournament



Camp at KARUIZAWA





Drinking party

Camp at HOKKAIDO

+ Visit to the Kusaka Laboratory

Date (2020)	Jan. 7 (Tue.)	Jan. 10 (Fri.)	Jan. 15 (Wed.)
Time	12:20 ~ 12:50	12:20 ~ 12:50	12:20 ~ 12:50
Meeting place	63-424	61-506A	61-506A

✓ Advance reservation is not required

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(Kusaka Laboratory M1 Mahoko Nakatsuka)

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