



Survey Results concerning the 4th GI-CORE Summer School for Medical Physics 2017

29 August, 2017

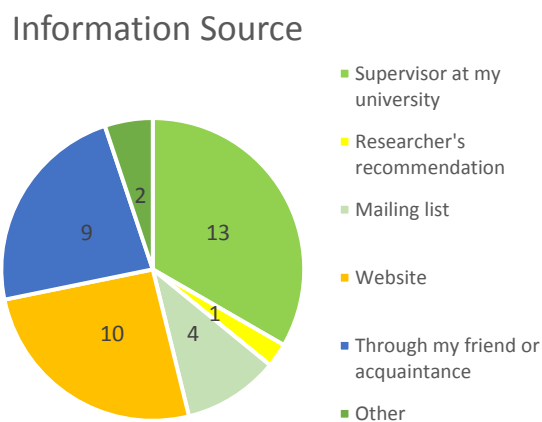
Global Station for Quantum Medical Science and Engineering

The 4th GI-CoRE Summer School for Medical Physics welcomed 36 participants from 15 different countries: USA, UK, China, Spain, Netherlands, Australia, India, Vietnam, Singapore, Philippines, Indonesia, Ghana, Nigeria, Colombia and Japan. In comparison to the participants in the past years, the summer school accepted the largest number of participants with different social backgrounds, i.e. undergraduate/graduate/PhD students, researchers, physician and medical physicists. All the participants successfully completed the course and were awarded a certificate of completion on the last day of the course.

The survey was conducted after the last lecture. We have received positive feedback in general but at the same time there were some areas for potential improvement with the summer school identified in the responses. Please find further details from the graphs and comments below.

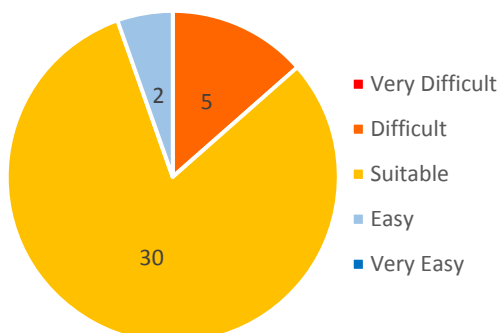
1. Source of Information (Multiple answers allowed)

How did you learn about that GI-CoRE Summer School was recruiting participants?

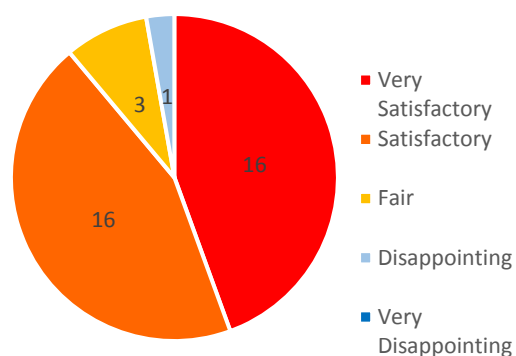


2. Lecture, Practical Training and Booklet

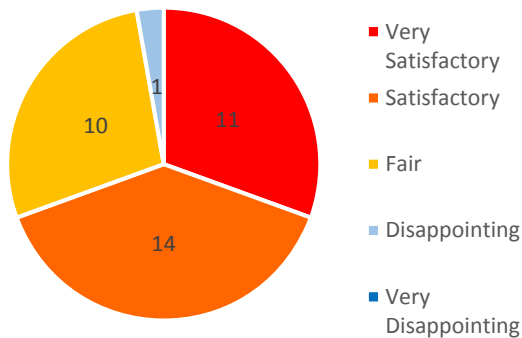
Contents of lectures



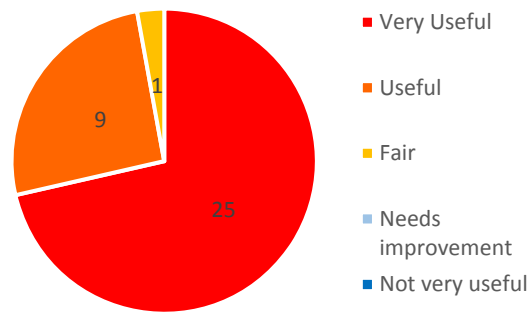
Quality of lectures



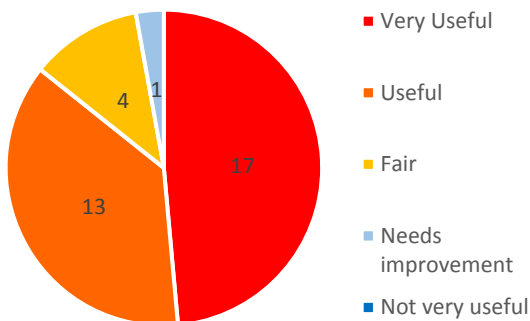
Practical trainings



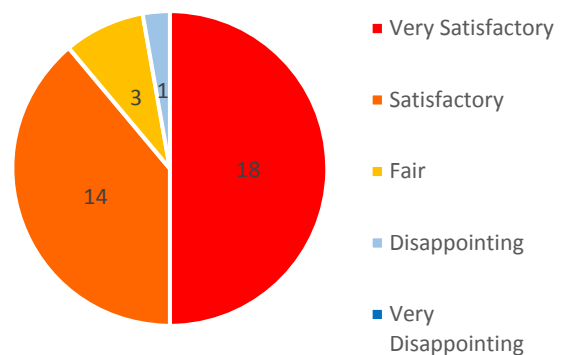
Lecture Slides



3. Evening Session



4. Summary Assessment



5. Free Comments from the Participants

(Requests, Advice to improve the seminar, Complaints etc.)

- Practical Trainings could be more practical and less lectures.
- First, I would like to thank the organization (Specially Eba and Ran) for their kindness and very helpful attitude. I am a medical physicist, and from my point of view the course was a little basic. I would suggest for next courses in the future to divide the course in two levels; the lectures for undergraduate or graduate students, and those appropriate for medical physicists focused on proton therapy.
- The program is very excellent. Every lecture was impressive. I think it is better if there is more practical time.
- The most effective learning was during the practical trainings. I recommend spending more time in small group with hands-on training, and less time in the large group formal lectures even the main lectures could be given to smaller groups to better facilitate interaction and conversation.
- The students have a wide range of experience levels. It might be nice to organize training according to experience level. For example, some students have never done QA on treatment machines, but others have been practicing medical physicists for many years. It is hard to teach a lesson to both of those groups.
- More physics portion of "proton therapy" should be discussed rather than photon therapy because "photon therapy" was very general stuffs (if proton therapy was the core of this summer course)
- Some of the presentations can be more interactive.

- More practical training would be better e.g. more details about patient QA
- Include more lecture about proton beam therapy, design details of proton therapy, radiation protection of proton therapy, shielding of proton therapy
- The summer school was a dream come true. It offered me the opportunity to meet with experts and learned colleagues on Radiation Therapy.
- I will like to request that participants be saddled with the assignment of developing a treatment planning process for Proton Therapy during the practical sessions.
- Thank you very much for a wonderful summer school. The organization was perfect. In the future, I would like to see more informal evening sessions to spend more time and have valuable discussion with lectures and other attendees. Otherwise, it was an amazing opportunity to learn about proton therapy and I have gained a lot from the talks and the hands-on training.
- Some of the lectures were merely theoretical.
- Appreciated the hands-on and demo tour to the proton beam therapy center.
- Language barrier is an issue as some parts of the lecture were quite inaudible.
- Lectures (e-copies) provided in the USB is very useful.
- Maybe the video from some PPT can be separated and make in one folder on the USB.
- Probably it is necessary to give pre and post test to the participants of the program.
- More practical simulation on the sites. For the short time summer school, it is already including all we need (in classes in lab/hospital). Thank you very much for your effort to make it all happened. It's adding my knowledge.
- The evening session was very useful.
- Practice in Mathematical modeling
- It is an excellent initiative by Hokkaido University. I have learned a lot about proton therapy. Monte Carlo Simulation lectures were tough to understand (since I am not a researcher and have no syllabus in master degree). You can simplify Monte Carlo simulation next time. My sincere thanks to Prof. Shirato, Eba and whole team of organizers.
- Just a small request. I think it is better to make a poster session from the participants, so the participants easily can get the travel expense from their home base institutions.
- Could possibly provide some lecture recording.
- I would prefer a longer session with ample time for lectures to cover more topics in terms of breadth and depth.
- All the practical training session, it will be really good and satisfactory if we really do the real hands-on practical training and maybe need longer session.
- I hope that in next summer school in the practical training, the participants can do a hands-on training and the time of practical training should be added.
- I want to learn more about your proton design. And I have learned the paper in Hokkaido University about proton therapy. It's amazing especially the RTRT system. It will be good to introduce more. Thank you a lot. I'm happy to be here learned from you.
- I know it is difficult but with both modalities it would have been nice to have several computers with the TPS to try for ourselves. Then having a step by step procedure would be beneficial. Overall it was amazing!

- The school is very well organized in general and it's an awesome opportunity for students all over the world to learn about this kind of treatment. I'm thankful for this opportunity and hope it can be done every year.
- Introduction proton therapy machine, a little more, maybe two lectures. Introduction spot scanning algorithm briefly.
- A wonderfully informative summer school. Very well run.

6. Most Impressive Lecture

- "Proton treatment system in Hokkaido University" (Prof. Kikuo Umegaki) and "Practical treatment planning (proton)" (Dr. Taeko Matsuura)
- 1. Proton treatment system in Hokkaido University 2. Four-dimensional radiation oncology and IEC protocols
- Overview of Radiation Therapy -Prof. Shirato
- Wednesday morning's session: Treatment Planning System for Spot Scanning Proton Therapy, Dose Calculation Algorithms for Spot Scanning Proton Therapy
- All the lectures were very impressive for me, especially Radiomics and Radiogenomics, Quality Assurance of EBT and PT, Overview of Radiation Therapy, SBRT and IGRT and Four-dimensional radiation oncology and IEC protocols
- Practical Training session in PTC
- Proton Treatment System in Hokkaido University and Overview of Radiation Therapy
- ①Four-dimensional radiation oncology and IEC protocols
②Proton Treatment System in Hokkaido University
③Practical Training: Treatment Planning
- I really enjoyed the talk by Prof. Kikuo Umegaki, Proton treatment system in Hokkaido University. It was great overview of the system here in Hokkaido and it was nice to see there are more future research in this field.
- I am very interested in the lecture from Prof. Masahiro Mizuta. It is about Optimization of Dose fraction based 3D Dose distribution, because I can use that concept in my country or my department. But all of the lecture is very interesting, because I get so much new knowledge.
- Monte Carlo Simulation in particle application (Chapter 16) by Dr. Toshiyuki Toshito
Proton Treatment system in Hokkaido Univ. (Chapter 22) by Prof. Kikuo Umegaki
- All have good points.
- All the lectures were impressive for me, particularly the topic about Spot Scanning Proton Therapy. It was very impressive the topic of dose calculation for PRT.
- Dose Calculation Algorithms for Spot Scanning Proton Therapy
- MD Dr. Shimizu's lecture
- Chapter 21(Four-dimensional radiation oncology and IEC protocols) and 22(Proton Treatment System in Hokkaido University)
- Proton Beam Therapy lectures and Monte Carlo one
- Training Session in Proton Beam Therapy Center
RTRT for tumor tracking

Monte Carlo for particle therapy

- Treatment Planning System for spot scanning proton therapy by Dr. Yusuke Fujii
- I love the Monte Carlo lecture and the explanation of Proton treatment system in Hokkaido University by Prof. Kikuo Umegaki.
- Chapter 4 (Dr. Yasui),5 (Prof. Mizuta),7 (Dr. Locke),14 (Dr. Yusuke Fujii),15 (Dr. Hirayama),16 (Dr. Toshito)
- Honestly, all the lectures are impressive and the lecturers really know their stuffs well.
- Practical training (almost all of the practical training, especially for proton)
- All of practical training
- All the practical training is so amazing! Seeing is believing. And other lectures were also good to have a clear concept in radiotherapy.
- I thought the radiation biology was presented very well. I am moving into this field and have been trying to learn these topics however no one was able to explain concepts as well as this lecture. Also, the proton treatment planning was very well explained!
- The real-time tumor tracking technique was quite impressive because reduces the amount of radiation. Also, the applications of Monte Carlo simulations in radiation therapy were very helpful because it is very important in today's needs at hospitals and universities.
- The practical training on proton and Proton Treatment System in HU and Overview of Radiation Therapy because Dr. Shirato mentioned the idea of δD which is new to me.
- Lecture by Prof. Umegaki, and by Dr. Chris Locke
- Chapter 5 (Prof. Mizuta) and 22 (Prof. Umegaki) and Practical training
- Treatment Planning (Proton) -Practical Training-4
Proton Treatment System in Hokkaido University
Lecturers from Stanford University
- 1. MC codes
2. RTRT system in Japan
- Radiobiology lecture