

Sciences boy's secrets in aged era

When I was hospitalized, I was pleased that my doctor told me "I will treat you to live for another 30 years." The era that the life expectancy of the Japanese is 100 year-old life has come into view. On the other hand, in the super-aged society, pressing on the national finance due to the increase in medical expenses for the elderly is a problem. A few years ago, I attended a meeting to consider medical treatment of the elderly and the national fiscal burden. Without being afraid of misunderstandings, it is said that the terminal care is at home, and that you want life to end there. So I told a young government officer in a certain ministry that "The old man after retirement feels less honorably!" As he said, "As you have been retired anymore, do not obsess being honorable." An old soldier fade away without dying, and that is the circulation of society. People over 65 year-old who occupy about 30% of the population of Japan, how long will they live after retiring from the front line? If it is healthy there will be a life of thirty years even after retirement. I would like to have a meaningful life if possible. According to the employment statistics, even after retiring once, one out of every five people has a full-time job. However, the remaining four are doing unemployed or irregular work or part-time work. I do not care as the third life design by pension alone. It is difficult to live the rest of the 30 years in a respected life with a healthy spirit. Therefore, finding out volunteer activities that are worthwhile is working hard for social contribution. In my case, I was retired relatively earlier than the ordinary age, and started independent business as a business development expert with stage-of-art-technology with overseas. After working as an industrial coordinator of a local government, I'm currently focusing on the volunteer activities of the STEM education⁽¹⁾ for planetariums at the science museum in my home town. However, it is not merely that I think that there are too few places to utilize the experiences of elderly people with motivationally.

People enjoy each way of after retirement. It varies a person to person. Sports for hobbies and health include walking, bicycles, swimming, tennis and golfing. Besides sports, there are activities of various hobbies such as chess, music, astrophotography and some activities. Some couples spend time and money on overseas trips with their husband and wife. How about the case of old science lovers? Theoretical physicist Lisa Randall, an American woman, is impressive saying "CURIOSITY" that is important as a word to Japanese children in the lecture trip to Japan. Indeed, with respect to curiosity, many scientists have left juvenile anecdotes. In Reichenberg, Emil Artin formed a lifelong friendship with a young neighbor, Arthur Baer, who became an astronomer, teaching for many years at Cambridge University. Astronomy was an interest the two boys shared already at this time. They each had telescopes. They also rigged a telegraph between their houses, over which once Baer excitedly reported to his friend an astronomical discovery he thought he had made - perhaps a supernova, he thought - and told Artin where in the sky to look. Artin tapped back the terse reply "A-N-D-R-O-M-E-D-A N-E-B- E-L." (Andromeda nebula)⁽²⁾ Richard Feynman, American physicist was also a curious boy. Feynman who was around 11 and 12 years old said that he was asked to repair radio noise from acquaintance from a part-time job, he said he was turning around the vacuum tube and repairing it. The mind of a

science boy never withers even when grown up. Mathematician Kentaro Yano and Hiraku Toyama wrote a lot of common science books about math which excited curiosity in kids. Especially, My curiosity was aroused by Yano' book "Flying Mathematicians." By the way, Toyama was teaching math at the navy air corps of Kasumigaura in his young days. Little is known of this curious story.

Well, after your retirement, if you are asked what you want to give time to, how do you answer? In my case, my best is math. It is fun to keep thinking about math more than anything. At this time, it's not principal occupation, it's writing works and blogs as Math Geek. Although you may feel that it would be ridiculed as a narrow-minded, I think that one who wants to re-learn mathematics in fact is actually among them. When most they could retire, they'd like to do the different work and activities. Because they think they want to reset themselves on retirement. By the way, when people in different fields are talking, chemistry between them may not match each other. Speaking of cultural differences, it is not until then, but there are reasons of different approaches. Every opportunity we are exploring science's approach based on mathematics and computation as the foundation of science. As part of activities, I continue "Math and Programming" seminar to foster the ability to science using mathematical words and algorithms

Astronomy and radio work stimulate the curiosity of a boy, like a boyhood of Artin and Feynman, and attract them to the science world. Even now, it encourages the curiosity of many children. As I mentioned above, I am also explaining stars and the universe at the science museum. It is fun to work directly with children. In another place, I continued a cultural lecture titled "Walk on the way of Stars and Literature". It was a discourse for adults, but I think that you could have enjoyed it.

Among the past science boys, Ham Radio was very popular. Ham is an amateur radio station once said to be a king of hobbies, in which they're exclusively engaged in wireless telecommunication technology with only personal interests. In the International Telecommunication Union Charter as follows. It is recommended that ITU, the administrative agency take necessary measures so that amateur stations can prepare at the time of a disaster and meet the necessity of communication. Administrations are encouraged to take the necessary steps to prepare for the future communication needs in support of disaster relief. Wireless telegraph had been rapidly put into practical use since the successful experiment in Italy in 1894, transmitter and receiver kits were sold in the United States in 1905, and in the early years of Artin it exploded fashion was doing. Recently, not a few ham radios in the same generation have re-opened after retirement. It is a resume station with the Extra qualification as well. I also made a comeback on ham radio for the first time in half a century. As I thought, it was a junior high school student who made a radio with a kit and challenged communication with overseas stations in English. However, the interest shifted once due to the arrival of the microcomputer era, but recently it became hot again. When I tried on air, I was surprised that CW communication⁽³⁾ by elderly ham stations was common. I feel a touch of irony in looks of tapping morse code with telegraph key so high-speedily or

desperately, even though today everybody can talk with anyone anytime with cell phone or emailing, yet this must also be interesting for old age.

The airplane was invented around the same time as wireless telegraph. It was in 1903 that the Wright brother succeeded in power flight with a person on board. Aside from that, in this era of the beginning of the 20th century, a lot of new technologies were created due to advances in science, but patents of those technologies were disputed in court even for wireless communication or airplane. Because the patent was a first-to-file principle, it often comes to lawsuit later. Wright brothers' Flyer had been forgotten from the world with a practical defeat in the patent dispute and because of the behind of subsequent technology was exhibited in the Science Museum in London in 1928. It was in 1948 that the Flyer returned to the United States and was exhibited at Smithsonian, National Air and Space Museum as the first airplane. In 1905, Special relativity was published by Einstein who won Nobel Prize in 1916 Physics for theoretical elucidation of the photoelectric effect based on the photon hypothesis rather than the relativity theory which was done between 1915 to 1916. Whether it is a new technology or a theory, it takes time to make a correct evaluation and be recognized from the public.

Not a few boys likes machines than radio. An aircraft is an invention at the same time as wireless telegraph. Science boys are interested in why airplanes can fly through the sky and why sail-boat can go upwind. Start with dynamics, it leads to interest in weather, celestial navigation and astronomy. Enjoying go flying and sailing or boating rides requires experience, training and expenses. I had owned an aircraft equipped IFR in general aviation. We have also hosted an air scouting and aeronautical science seminar for kids. Marine sports are also good for enjoying slow leisure in old age. An island country similar to Japan. One third of households in Auckland City in New Zealand owns a sail boat or a pleasure boat. As you can see around the world, marine sports were flourishing in any marine cities. It seems old life on the side of the sea is rich and easy to spend time. Ibaraki prefecture is also a favorable geographical condition for seafaring.⁽⁴⁾ I hope that this area will become more gentle with old age Finally, I want to keep in mind the curiosity when I was a the science boy.

(footnote)

1). STEM education is the meaning of Science, Technology, Engineering, Mathematics education. In February 2026, former US President Obama is an educational policy to strengthen its industrial competitiveness in the White House statement. President Trump President 's policy to deny the former administration has been disappointing here and there seems to be confusion in the educational setting. However, it is a common educational policy in any developed industrialized country, but each country is particularly focused on mathematics education.

2) . Andromeda Nebula is a name of those days. Today, it is called the Andromeda galaxy.

3). CW means communication by Morse code (A1A)

4). Ibaraki prefecture has a long coast and the second largest lake in the country. It has a advantage of location which is near by metropolitan area. However, the number of registered sale boat is 172 vessels, it ranking is 17th. The number of registered cruiser for pleasure is 2378 vessels, it ranking is also 27th. The top ranking of registered sail boat is Kanagawa prefecture which has 1945 sail boat. The top of registered pleasure boat is Hiroshima prefecture which has 11454 cruisers. (JCI 2017 data)

5) These sports recreation activities can not be enjoyed without passing a national exam qualification that complies with international regulations. Moreover, English is indispensable in the world of aviation, and talking in English skill is necessary for the international operation.