# Dr. PR Officer Or: How I Learned to Communicate Science

#### SCIENCE COMMUNICATION

Azusa Minamizaki
April 10, 2019 @ KMI Topics

「原子爆弾が一発爆発してみると、科学者は実験室の中で試験管とにらみっこばかりしていられないし、一般人は原子というものが科学者の観念の産物に過ぎないとなどと敬遠してはいられないようになる。こうして、科学と他のあらゆる文化部門、科学者と一般人の相互作用はますます大きくなって行き、互いに他をひとごとのように考えていることは許されなくなっていく。…(中略)…

"Once the atomic bomb was detonated, scientists could not spend all of their time in a laboratory just watching a test tube, and the public could not ignore atoms and just think of them as conceptual objects created by scientists. In this way, interactions between science and humanities, and between scientists and the public became more important, and we must no longer think of each other as unrelated.

### WE NEED SCIENCE COMMUNICATORS

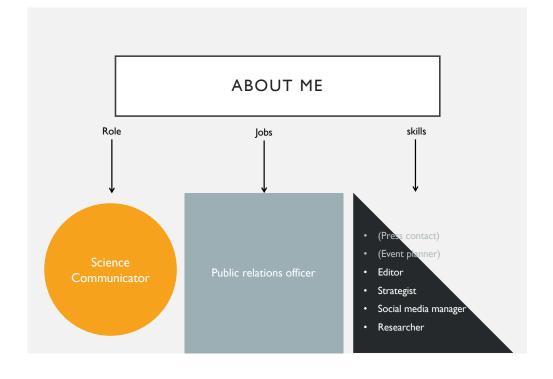
Ref: Shin-itiro Tomonaga, December 5, 1948, "cooperation of highly developed science and journalism," Bunrika University newspaper **Avoiding Copyright Infringement ...** 

これからの科学者は単なる研究職人であってはならないことになる。彼らは目をひろく開いて人類文化の中で自分の位置と責任を自覚し、一般人の科学への愛と関心とをよびおこし、彼らをして科学が自分の享受する文化財であるという実感をもって、その力を喜んで科学者に貸すようにしなければならない。しかし、このことがすべての科学者をして研究室を留守にして街頭にたたせるという結果になってはならない。…科学そのものがからっぽになっては、それを愛せよ、それに関心を持てよと求めても出来ない相談である。科学者は常に科学を生産していなければならない。

Today, a scientist should not only be engaged in science but should be a person who has a wide perspective and understands his or her responsibility to humankind. Scientists must try to attract people so they understand science is one of the cultural properties of being human and make them willing to help scientists. However, this does not mean that all scientists should leave their laboratories to stand on the corner to talk with the public. No one will be interested in science if science itself is empty [if science is not progressing]. Scientists always have to produce [engage in] science.

この意味で、科学教育者とか科学ジャーナリストとか…といわれる人々の仕事がますます重 要になってくる … われわれはこれらの仕事の意味を新たに見直し、それらに今までにない 政策を要求しなければならない。すなわち、これらの仕事はもはや単なる職人的な教育や知 識の切り売りであってはならない。これらの仕事は、一方に科学の文化における位置につい てひろい見通しを持ち、他方には日々に進む科学そのものの中に深く根を張っているような 人によって行われなければならない。これらの人々は、一般人の要求や興味をよく察すると ともに科学がいかにして作られるかということも体得していなければならない。

In this sense, the roles of people such as science educators or science journalists, become increasingly more important.... We must pay attention to their work and listen to their recommendations when making policy. Therefore, this work should be done by a person who has a broad perspective on the relationship between science and human culture and it should be done by someone deeply rooted in day-to-day scientific progress."



#### **ABOUT ME**

- Ochanomizu University (~ 2010)
- 2. The University of Tokyo (2010 ~ 2013)

Project researcher, Public Relations Office

- 3. Freelance science communicator (2013 ~ 2015)
- 4. Caltech/IPAC (2016 ~ 2018)

5. KMI, Nagoya University (2018 ~ present)

#### **PUBLIC RELATIONS**

1947 **広報 PR** 1960s~







#### **PUBLIC RELATIONS**



#### SCIENCE COMMUNICATION



~19c

"Public Understanding of Science (PUS)"

20c

"Public Engagement in Science and Technology (PEST)"



#### SCIENCE COMMUNICATION



- 2005 The beginning of "Science Communication" in Japan
  - "Science communicator" (2004, White paper on Science and Technology, MEXT)
  - Goal: "Public Understanding of Science (PUS)"
  - Some universities started science communication courses
  - [Azusa] Museum curator license (2005) + SC courses in Ochanomizu university
  - → became a science communicator!

#### JOYS OF SCIENCE









#### 目立ふしぎ発見 (2008)

Director, script: Azusa Minamizaki





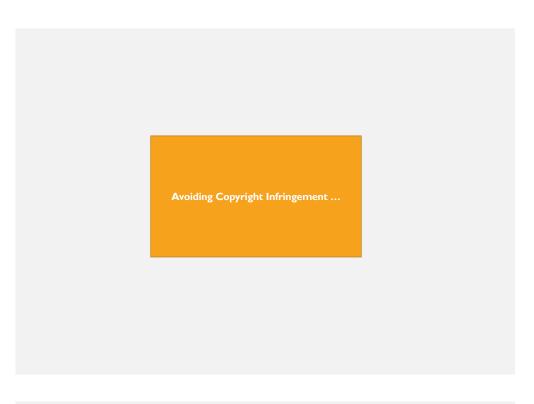


#### いつかあなたに逢うために

Same time, same place, on the night of the new moon

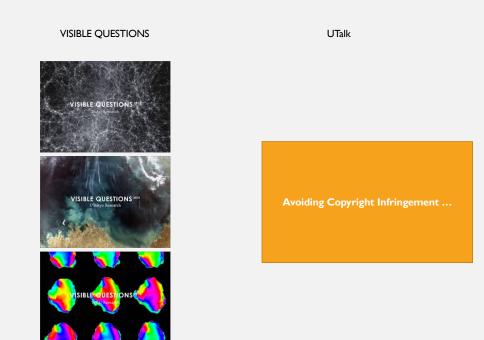
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**SCIENCE PROGRESS** 



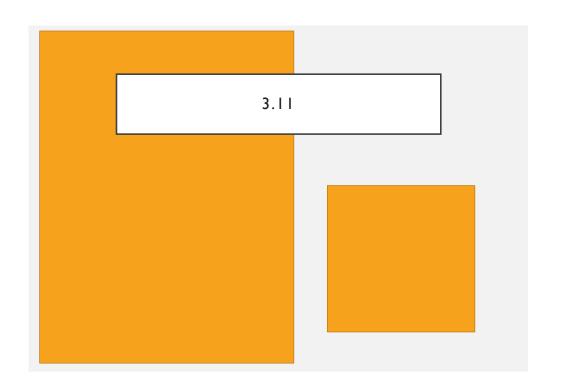


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3.11

"Failure in "Trust of science Science Communication" is lost"



"KEEP POSTING RESEARCH NEWS"

# "ability" "always on-going"

#### **ABOUT ME**

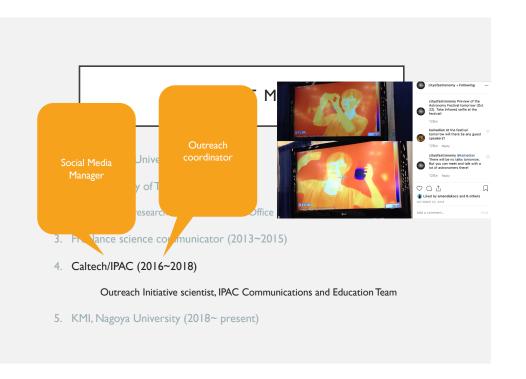
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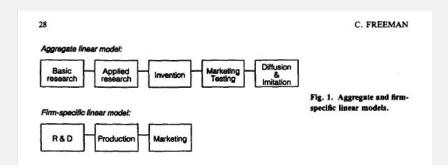
Outreach Initiative scientist, IPAC Communications and Education Team

5. KMI, Nagoya University (2018~ present)



# WHY SHOULD WE SPEND MONEY FOR BASIC RESEARCH?

A. "Basic science will make our society better in the future"



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A. "Basic science will make our society better in the future"



# WHY SHOULD WE SPEND MONEY FOR BASIC SCIENCE?

A. "Science expands the horizon of knowledge"

# WHY SHOULD WE SPEND MONEY FOR BASIC RESEARCH?

A. "decision is yours"



#### MESSAGE TO YOUNG PEOPLE



"Being a particle physicist has been a source of joy in my life.

. . . .

Thus, physics study and research has been a very rewarding experience on the intellectual, human and cultural levels. I cannot think of a better choice of career!"

Search #KMI2019 on facebook, or check out our webpage!

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JOYS OF SCIENCE

**SCIENCE PROGRESS** 

SCIENCE IS NEVER COMPLETED

WHY SHOULD WE SPEND MONEY FOR BASIC RESEARCH?

MESSAGE TO YOUNG PEOPLE

Thankyou