

MAIMR Advanced Institute for Materials Research Magazine

07
March 2015

[Feature article]

Supercritical water: a dream fluid

The frontier where organic matter
and inorganic material meet

[AIMR in the world]

Thomas P. Russell

From Polymers to Working
with Math

Toward a Sustainable Society

[Special Interview]

What are the roles that universities and AIMR should play in order to solve the various issues confronting society?

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MAIMR Advanced Institute
for Materials
Research
Magazine
AIMR Magazine March 2015

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MATERIALS

Tomography is the generic term for using methods like sound waves or electromagnetic waves to explore the internal structures of objects that are not visible from the outside. One example of tomography is seismic tomography, which examines the internal structure of the Earth. This still might not give you a clear idea of what tomography entails. However, when we write “X-ray CT” (X-ray Computed Tomography), many people would probably remember wha

Song Toan PHAM

“I wanted to find out more about the world I live in, and I believed science could give me the answers I was seeking.” This is what motivated Dr. Pham to become a researcher.

Upon deciding to become a researcher, Dr. Pham felt that he wanted to make something new; so he started studying materials science. Among the various materials in this field, he was particularly drawn to organic material with its potentially high application in everyday life. “Apart from being flexible and extremely cost effective, with the use of spintronics, organic material is also able to transmit spin information over longer distances than inorganic material. As such, it is a fascinating material also for use in electronic devices.”

Dr. Pham is currently researching organic spintronics devices at Prof. Mizukami’s lab at AIMR. “Tohoku University is renowned in the spintronics field, and AIMR is well equipped with top level researchers and equipment. I greatly look forward to the opportunity to conduct research in such an excellent environment.”

Before coming to Sendai, Dr. Pham lived in Vietnam and Osaka. When asked if the cold winters here are particularly tough for him, he replied with a smile, “I like snow and skiing, so I’m really enjoying my life in Sendai.”