<<20131010>> Archived distributions can be retrieved at; <<http://tinyurl.com/azg3eyl>>. This archive includes a html version of this list distribution and its MS/WORD version with its filename as “year-month-date.doc.” You can also access all of its attachments, if any.

**References:**

(a) “Without Test Tubes, 3 Win Nobel in Chemistry”
KENNETH CHANG, The New York Times, October 9, 2013
<<http://tinyurl.com/mk2gdql>>

(b) Takeshi Utsumi, GLOSAS/USA
"Globally Collaborative Environmental Peace Gaming (GCEPG)"
<http://tinyurl.com/k2c7a>

This has been outgrown to the following project;
(c) Utsumi, T., “The Global Knowledge Center Network (GKCN) with The Global University System (GUS)” (June 25, 2013)
<<http://tinyurl.com/o5l22ll>>

(d) Kirk-Othmer Encyclopedia of Chemical Technology
<<http://onlinelibrary.wiley.com/book/10.1002/0471238961>>

(e) Item (2) of;
(20121203) Request of help from the Executive Director IOCD (International Organization for Chemical Sciences in Development)
<<http://tinyurl.com/cswt5be>>

**Dear E-Colleagues:**
(1) I am extremely happy to know  that the Nobel Prize in Chemistry of this year was awarded to Profs. Martin Karplus of the University of Strasbourg in France and Harvard University; Michael Levitt of Stanford University; and Arieh Warshel of the University of Southern California.

This is for their work on analysis of chemical reaction with computer simulation without the use of test tubes.

(2) My happiness is because of the following two folds;

(a) Field: analysis of chemical reaction — same as mine — see below;
(b) Method: use of computer simulation — my life-long profession — see below.

(3) As for the Item (2)-(a) above, my Ph.D. Thesis work at the chemical engineering department of now New York University/Polytechnic Institute pioneered on the analysis of the effect of heat generated by chemical reaction on the rate of diffusion for the absorption of acidic gas (SO2 or NO-x, etc.) into alkali solution with the use of “Two-Film Theory” (\*).  It was about the time when Rachel Carson published the famous book “Silent Sprint” in 1962.  In a sense, my Ph.D. Work was also a forerunner prior to the subsequent cleaning air-pollution problems around the world — particularly around petrochemical center in Yokkaichi-City in Japan — Reference (b) above.

Pls visit Reference (e) above how I used a slow-time analog computer made by Bell Lab in New Jersey for this work, which was once mounted in the battleship Missouri on which General MacArthur signed the peace treaty with the Japanese Foreign Minister, Mr. Sigemitsu at the end of the last WWII — BTW, the analog computer was used for gun trucking to bombard Hitachi City located northeast of Tokyo — which big sound I heard in my home town which was almost 400 miles away in the middle of Japan main island.

(\*) The “Two-Film Theory” was also used by our colleague, Dr. Thomas Mensah, when he invented the fast extrusion of optical fiber which initiated the broadband Internet in global scale, which changed the world!!  This theory was devised by Dr. McCabe, who was the thesis professor to Dr. Donald Othmer at the University of Michigan, both of them were my thesis advisors.

(4) As for the Item (2)-(b) above, one of professors in the chemical engineering department questioned me how to make chemical reaction in computer — I (a graduate student) was way ahead of professors there.

My Ph.D. Thesis professor was Dr. Donald Othmer (Reference (d) above).  Around that time in the late 1950s to early 1960s, not many professors knew about computer — let alone the analog computer.  Dr. Othmer called me to his office and said to me, “I know logarithm, but I don’t know algorithm.  What is that?”  Of course, without much English capability, I didn’t know it either.  Since there weren’t so many books about computer that time, I had to visit then existed Engineering Library nearby the UN, NY City Library and the library of the Chemists Club and so on.  I was indulged in reading many, many books to fulfill my thirsty young brain.  I then realized this was the way big professor teach his students about what he doesn’t know himself either!!

Pls visit Reference (e) above to learn how he made US$750 million (which may be over one billion dollars nowadays!!) — out of which he donated $175 million to the Polytechnic Institute of New York University and $25 million to Kings Hospital in Brooklyn for taking care of his wife’s Alzheimer disease — those are the world record number as of the college professor’s donations.

(5) Anyway, the computer simulation has now been recognized as a legitimate scientific field for the Nobel Prize.

My next dream is to see the Nobel Prize on the use of computer simulation in the fields for paradigm shift in international political science for global peace keeping, and the basis of constructing an Electronic United Nations out of our Global Early Warning System (GEWS) — see Reference (c) above, etc.

Best, Tak

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