Satoshi Ozaki: A Legacy of International Collaboration at KEK

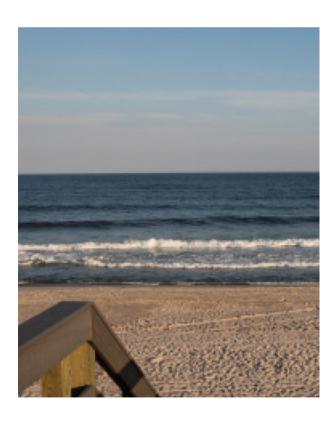
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My history with Satoshi Ozaki

- ➤ When I was <u>very</u> young
 - many summers at BNL, a vacation resort
 - Pool, beaches, large playground, other children
 - Learning how to ride a bicycle
 - Mr. Ozaki, tour guide of the AGS



My history with Satoshi Ozaki

➤ When I was young

- 1982: PhD, UC Berkeley, with PB Price: Search for Highly Ionizing Particles at PEP (e⁺e[−]/29 GeV) → postdoc on CLEO experiment (e⁺e[−]/9-11 GeV)
- 1983: at Lepton-Photon Symposium at Cornell
 - Ozaki, TRISTAN Director, soliciting proposals for Oho, Nikko IR's at TRISTAN; encourages young postdoc inquiring about a Search for Highly Ionizing Particles (SHIP) at TRISTAN

My history with Satoshi Ozaki

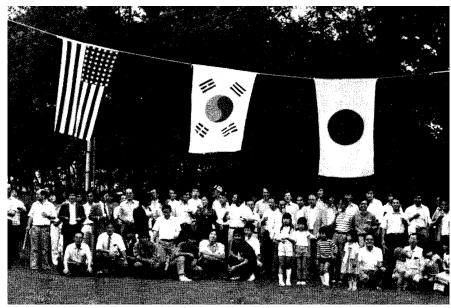
➤ When I was young

- 1984: postdoc → Assistant Professor; Proposed SHIP at TRISTAN, approved(!) for Nikko Hall (Nikko-Maru)
- 1985-9: A VERY inexperienced PI/group leader is coached by Ozaki-sensei through assembling collaborators, NSF funding.
- Successful collaboration [with K. Nakajima (KEK),
 M. Fujii (ISAS), S. Tasaka (Gifu U), P.B. Price (Berkeley)]
- PRL 60, 1610 (1988); Phys. Lett. B228, 543 (1989)
 (no monopoles, sorry)

KEK was also in a formative period

- ➤ With TRISTAN (e⁺e⁻/62 GeV), Japan joins an exclusive club: host to a world-leading accelerator
 - Reverse brain drain
 - Tribute to economic success, education system
- ➤ Internationalization is seen as essential
 - Best science ↔ largest possible talent pool
 - Communication (in English) for broad recognition

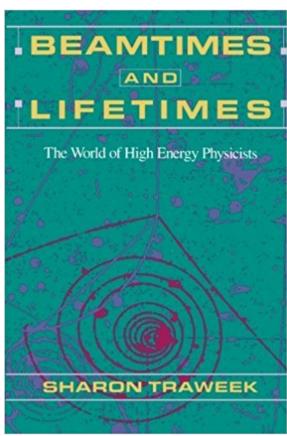
- ➤ KEK's road to internationalization
 - International call for proposals
 - Some bumps in the road
 - AMY collaboration
 (Japan+US+Korea+China)
 S. Olsen (spokes), Y. Sakai,
 K. Abe, ...
 - SHIP (US+Japan)



AMY (CERN Courier, 1985)

- ➤ KEK's road to internationalization
 - practical challenges, including
 - Communications: how to say/hear yes/no
 - Trans-national funding administration
 - Cultural organizational structures, research styles
 - A myth of Physics: "a culture of no culture," that physics research, like physics itself, is cultureless not influenced by the cultural origin of the researchers

- ➤ KEK's road to internationalization Cultural issues:
 - "Beam times and Lifetimes," by Sharon Traweek: comparative anthropological examination of HEP collaborations & community, Japan (KEK)-US (SLAC)
 - Japan: hierarchical, emphasis on teamwork
 - US: emphasis on the individual, "lone genius"
 - Both systems have strengths (& both disadvantage women, using different stories)



- ➤ KEK's road to internationalization Cultural revolution
 - ≈1985: Young Japanese (H. Aihara, H. Kioso, ...) propose
 Υ(4S) experiment at KEK accumulator ring
 - Radical, not part of the plan (declined)
 ... and challenge to the hierarchy
 - A seed was planted!

➤ KEK's road to internationalization

- life at KEK for foreign visitors
 - KEK gains features of BNL
 - Family housing
 - Swimming pool, gymnasium, tennis courts
 - Still, life at KEK/Japan was not for the unadventurous
 - Everything runs well, provided each person understands the system
 - staff accompany gaijin when necessary (often)
 - Network was in early stages ≈1984, 7 bitnet accounts (in all of Japan)
 - Foreign exchange takes ≈ 1 hour at the bank; no credit cards
 - Cafeteria closed weekends, no food within near biking distance

Today: The Legacy

- ➤ Expanding internationalization at KEK
 - Belle/KEKB (>14 nations)
 - 2008 Nobel prize another for Japan HEP theory
 - K2K (≈10 nations)
 - T2K (≈12 nations)
 - Belle II/SuperKEKB (>25 nations)

The Legacy

➤ life at KEK for foreign visitors

- Everything runs well, provided each person understands the system
 - User's Office/International Office
 - User groups give feedback, services improve
- Connected worldwide: grid, remote conferencing
- ATM's, credit cards
- McDonald's, Kasumi

The Legacy

➤ Facing the challenges

- Despite a "Culture of no culture," HEP institutions are organized based on the structures of society; they arrive at a "way of working" that is hard to change once established.
- Experimental HEP requires large budgets, high degree of organization & team work, at risks to creativity.
- When different cultures come together to collaborate, each contributes strengths, disruptions happen

The Legacy

- ➤ Facing the challenges
 - Disruption forces out-of-the box thinking
 - e.g. Belle great teams, out-of-the box discussions
 - \rightarrow X(3872); Υ (5S) program, Z_b 's
 - Let us embrace disruption, find better ways for our organizations to run, support collaborations and individuals, and make discoveries!

Let us celebrate the legacy of Satoshi Ozaki.