



Report from Physics WG

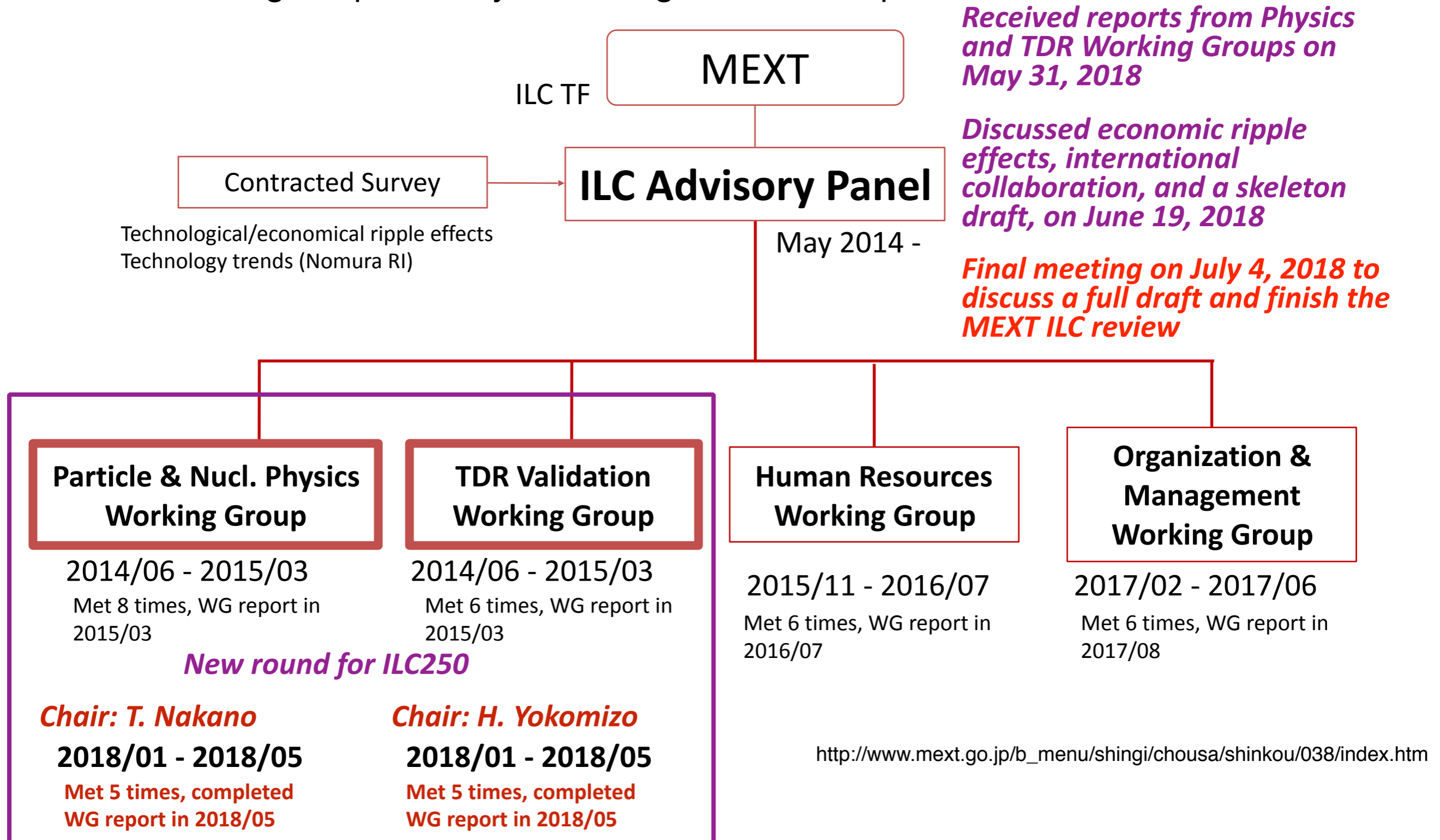
Keisuke Fujii
on behalf of the Physics WG
September 4, 2018

Situation in Japan

MEXT Review

ILC Advisory Panel

Set up in May 2014 under MEXT ILC Task Force to investigate various issues concerning the possibility of hosting the ILC in Japan



The final report from the ILC Advisory Panel is open to the public now. The report is about 140 pages long and in Japanese. It will be translated (at least partially) into English.

http://www.mext.go.jp/b_menu/shingi/chousa/shinkou/038/gaiyou/_icsFiles/afieldfile/2018/07/19/1407245_1.pdf

- ***The report has been sent back to the **S**cience **C**ouncil of **J**apan (for hopefully their endorsement).***

SCJ Review

SCJ Review Committee for ILC250

Charge

For the 250 GeV ILC, review (i) physics case in HEP, (ii) scientific significance including other fields, (iii) merits for people and society, and (iv) various conditions regarding construction and operation of the facility

Members

1. Tadashi Kobayashi : Philosophy
2. Tatsuyoshi Saijo : Economy
3. Takaaki Kajita : Cosmic Ray
4. Hirokazu Tamura: Nuclear Physics
5. Masako Yoneda (**deputy chair**) : Civil Engineering
6. **Yasuhiro Iye (chair)** : Material Science
7. Mitsuru Uesaka : Accelerator Physics
8. Nanshi Sugiyama : Astronomy
9. Tomofumi Nagae : Nuclear Physics
10. Toshio Hirano : Biology

SCJ Technical Subcommittee for ILC250

Charge

For the 250 GeV ILC, review (i) technical feasibility, (ii) cost estimate, (iii) economic ripple effects, and (iv) potential environmental effects

Members

1. Tatsuyoshi Saijo : Economy
2. Masako Yoneda (**chair**) : Civil Engineering
3. Yasuhiro Iye : Material Science
4. Masashi Kamon : Civil Engineering
5. Tohru Nakashizuka : Environmentology
6. Muneyoshi Mochizuki : Civil Engineering

SCJ Review Committee for ILC250

1st meeting on Aug. 10 (Joint Upper&Subcommittees Mtg.)

- **ILC 250 Physics Case: KF**
- **ILC 250 Machine: Shin Michizono**
- **LCB: Tatsuya Nakada**
- **MEXT ILC Physics WG: Takashi Nakano**
- **MEXT ILC TDR Validation WG: Hideaki Yokomizo**
- **MEXT ILC HR WG: Takashi Nakano**

2nd meeting on Aug. 21

- **PIP: Masa Yamauchi (KEK DG)**
- **MEXT ILC Organization & Management WG: Shoken Miyama**
- **MEXT Due Process for Project Prioritization : Yoshiyuki Chihara from MEXT**

3rd meeting on Aug. 29:

- **KEK's future plan and ILC: Masa Yamauchi (KEK DG)**
- **JAHEP's consensus on ILC: Hiroaki Aihara (JAHEP chair)**
- **Particle Accelerator Society of Japan and ILC: Ryoichi Hajima (PASJ chair)**

4th meeting on Sep. 11: closed

5th meeting on Sep. 18 (joint with the subcommittee): ???

SCJ Technical Subcommittee for ILC250

1st meeting on Aug. 10

- same

2nd meeting on Aug. 20

- Costing: Shin Michizono
- CFS: Masanobu Miyahara

3rd meeting on Aug. 23:

- NRI report on Potential Technological Issues: NRI
 - Shin Michizono and Masanobu Miyahara as references
- Economic Ripple Effects: NRI

4th meeting on Sep. 13: partially closed

- We are invited for hearing regarding various issues so far pointed out

***ILD Physics WG
Status and Plan***

Benchmark Studies

→ *Jenny's talk*

Higgs Couplings 2018: Nov.26-30 in Tokyo

<https://www.icepp.s.u-tokyo.ac.jp/hc2018/>

4 abstracts submitted:

- Coupling strength and CP properties in $H \rightarrow \tau^+\tau^-$ at ILC: ***Daniel Jeans***
- Higgs self-coupling projections at the ILC: ***Junping Tian***
- Sensitivity to anomalous VVH couplings at the ILC: ***KF on behalf of Tomohisa Ogawa***
- Prospects of measuring Higgs boson decays into muon pairs at the International Linear Collider: ***Shin-ichi Kawada***

Proposed S&A meeting schedule

Sep. 5: Frank

Sep. 12: Jenny

Sep. 19: KF

Sep. 26: Akiya

Oct. 3: Frank

Oct. 10: Jenny

...

***Weekly physics conveners' meeting every Tuesday
at 13:00 CERN time***

Weekly S&A meeting from this week on.

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

3-day Pre-meeting to LCWS in Arlington

Date: Oct. 19-21

Expected attendee:

- physics and software conveners***
- benchmark analyzers***
- benchmark reviewers***
- others***

Agenda page is being prepared now.

Please book your flights accordingly!