

Doc No: WG21 N3900  
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Reply to: Herb Sutter (hsutter@microsoft.com)

# WG21 2014-01-31 Telecon Minutes

## 1. Opening and introductions

Sutter called the meeting to order on 2014-01-31 at 8:08am U.S. Pacific Time.

### 1.1 Roll call of participants

In attendance were:

- Hans Boehm (US)
- Walter Brown (US)
- Steve Clamage (US)
- Marshall Clow (US)
- Lawrence Crowl (US)
- Gabriel Dos Reis (US)
- Stefanus Du Toit (US)
- Barry Hedquist (United States HoD)
- J. Daniel Garcia (Spain HoD)
- Lois Goldthwaite (United Kingdom HoD)
- Alisdair Meredith (US)
- William M. (Mike) Miller
- Clark Nelson (US)
- P J Plauger(US)
- Tana Plauger(US)
- Tom Plum (US)
- Michael Price (US)
- Thomas Rodgers (US)
- Chris Sammis (US)
- Herb Sutter (Convener)
- Ville Voutilainen (Finland HoD)
- Jeffrey Yasskin (US)

### 1.2 Adopt agenda

Adopted the published agenda in [N3826](#) by unanimous consent.

### 1.3 Approve minutes from previous meeting

Approved [N3767](#) as the minutes of the previous telecon (pre-Chicago) by unanimous consent.

## 1.4 Review action items from previous meeting

There were none.

## 1.5 Review of project editor and liaison assignments

[N3697](#) lists the current liaison assignments, and editors of the then-existing work items. Since then we have four new TS work items with these project editors:

- Library Fundamentals TS: Jeffrey Yasskin
- Array TS: Lawrence Cowl
- Concurrency: Artur Laksberg
- Parallelism: Jared Hoberock

## 2. Status, liaison and action item reports

### 2.1 Subgroup status reports (CWG, LWG, EWG, LEWG)

Miller reviewed N3852 which lists the current C++14 CD ballot resolution comment status. Miller reported that CWG is in good shape and expect to complete comment responses in Issaquah. Some issues still need drafting, however. There are no known showstopper comments.

Meredith reported that LWG has 210 issues, 70 new ones since the CD, none in the critical category. Only one CD issue is still open and will be given priority in Issaquah. LWG will adopt CWG's approach of giving issues a priority level and work them in priority order.

Voutilainen reported that EWG has 49 open issues, up by 3 since Chicago, none of which are about C++14. EWG will be in TS/C++17 mode in Issaquah unless questions arise.

Yasskin reported LEWG is done with C++14, focusing on TSes. LEWG is available at any time for "how to design things" questions from TS proposals.

EWG and LEWG will ensure they review the design of the various TSes, or delegate to SGs.

Core and LWG will ensure they review the wording of the various TSes, or delegate to SGs.

EWG and LEWG will handle the discussion of the Array TS.

### 2.2 Liaison reports

#### 2.2.1 Study Group reports

Boehm reported that SG1 has a few remaining concurrency ballot comments to resolve.

Sutter reported that SG3 will be working on File System PDTS ballot resolution.

Sutter reported that he is working with the SG4 chair to determine the availability of the project editor and the status of the first working draft.

Sutter reported that SG5 will likely be requesting starting work on a TS, and will be on the agenda for EWG and LEWG.

Cowl reported that SG6 has a number of papers but no issues related to C++14.

Sutter reported that SG8 expects to work in EWG to adopt and refine their work on the Concepts TS. Dos Reis reported that they are working toward a PDTS at the end of Rapperswil.

Clow reported that SG9 is low-volume at this meeting. Working with LEWG on which papers should be considered in LEWG or SG9.

Nelson reported the recommendations are posted as SD-6 on [isocpp.org](http://isocpp.org).

Sutter reported that has been unable to find a replacement chair for SG11 and so expects to disband SG11 in Issaquah if there is no change. There are some database papers and these should fall under LEWG.

Dos Reis reported that SG12 has made progress between meetings and has papers to consider in Issaquah.

Sutter reported that SG13 has an initial proposed to consider at this meeting and may seek some LEWG design feedback.

### 2.2.2 SC22 report

Since Chicago, we have asked for and received four new work items:

- Library Fundamentals TS
- Array TS
- Concurrency
- Parallelism

We also have completed the File System PPTS ballot and will do ballot comment resolution in Issaquah.

### 2.2.3 SC22/WG14 (C) report

Liaisons had no news to report.

## 3. New business

### 3.1 Review of priorities and target dates

The focus of the upcoming face to face meeting in Issaquah will be ballot resolution:

- C++14 CD ballot comment resolution to produce a C++14 DIS at the end of Issaquah.
- File System PPTS ballot comment resolution.

In remaining time we will also work on issues lists and TS work. See also notes in agenda item 2.1.

Sutter reminded that both Chicago and Issaquah are C++14 CD ballot resolution meetings, whose purpose is to make (only) changes that increase consensus. In Chicago we successfully addressed most of the CD ballot comments including all the most controversial ones. Sutter has been in regular private contact with all attending national bodies, and requested them to review N3797 (the post-Chicago draft) as though it were the DIS and report any serious concerns that could cause them to vote No in the DIS ballot; most national bodies responded, and none reported any serious concerns. Therefore it is the convener's understanding that, barring late-breaking surprises, we currently have *unanimous* consensus on working draft N3797, and so the only further changes we would make for C++14 in Issaquah would be ones with no objections from any national bodies present as anything less would reduce consensus.

Voutilainen asked about the target for the Library Fundamentals TS. Yasskin mentioned the goal of issuing a Library Fundamentals PPTS at the end of Issaquah, unless there is strong sense to wait until

Rapperswil. The plan is to publish a revision of the Library Fundamentals TS annually, for a continuous stream of additions.

### 3.2 Review of current mailings

All papers are accounted for in subgroups. Proposal authors who are new attendees have been contacted.

### 3.3 Any other business

No other business.

## 4. Review

### 4.1 Review and approve resolutions and issues

No resolutions.

### 4.2 Review action items

No action items.

## 5. Closing process

### 5.1 Establish next agenda

Unanimous consent to reuse this agenda.

Brown requested including a link to the previous minutes.

### 5.2 Future meetings

Deferred to Issaquah.

### 5.3 Future mailings

Deferred to Issaquah.

### 5.4 Adjourn

The meeting was adjourned at 10:09am U.S. Pacific Time.