

Agenda for 3 – 7 August, 2020  
MEETING OF ISO/IEC JTC 1/SC 22/WG 14 AND INCITS PL22.11  
WG 14/N 2538

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## Dates and Times

Each day will have a half-hour break from 14:00-14:30 UTC.

3 August, 2020 12:30 – 16:00 UTC

4 August, 2020 12:30 – 16:00 UTC

5 August, 2020 12:30 – 16:00 UTC

6 August, 2020 12:30 – 16:00 UTC

7 August, 2020 12:30 – 16:00 UTC

## Meeting Location

Please note: Due to the global health emergency, this is no longer a face-to-face meeting.

*This meeting is virtual via Zoom.*

## Meeting information

Please see the ISO Meetings platform (log into [login.iso.org](http://login.iso.org) and click on Meetings) or contact the convenor for the URL and password.

## Local contact information

David Keaton <[dmk@dmk.com](mailto:dmk@dmk.com)>

## 1. Opening Activities

### 1.1 Opening Comments (Keaton)

1.1.1 We have learned since the last meeting of the [unfortunate passing of Walter Banks](#) (Bytecraft, Canada), on December 9, 2019. He was a major contributor to Embedded C, TR 18037.

### 1.2 Introduction of Participants/Roll Call

### 1.3 Procedures for this Meeting (Keaton)

### 1.4 JTC 1 Required Reading

1.4.1 [ISO Code of Conduct](#)

1.4.2 [IEC Code of Conduct](#)

### 1.4.3 Key points

- 1.5 Approval of Previous Minutes [[N 2519](#)] (PL22.11 motion, WG 14 motion)
- 1.6 Review of Action Items and Resolutions
- 1.7 Approval of Agenda [[N 2538](#)] (PL22.11 motion, WG 14 motion)
- 1.8 Identify National Bodies Sending Experts
- 1.9 INCITS [Antitrust Guidelines and Patent Policy](#)
- 1.10 INCITS official designated member/alternate information

## 2. Reports on Liaison Activities

### 2.1 ISO, IEC, JTC 1, SC 22

#### 2.1.1 Recent changes to the Directives

### 2.2 PL22.11/WG 14

#### 2.2.1 Document system

2.2.2 Optionally marking some future papers that clarify or fix text as "may be of interest to readers of prior editions of the standard"

#### 2.2.3 Outreach

### 2.3 PL22.16/WG 21

### 2.4 PL22

### 2.5 WG 23

### 2.6 MISRA C

### 2.7 Other Liaison Activities

## 3. Reports from Study Groups

### 3.1 C Floating Point activity report

### 3.2 C Safety and Security Rules Study Group

### 3.3 C Memory Object Model Study Group

## 4. Future Meetings

### 4.1 Future Meeting Schedule

Please note that in-person meetings may be converted to virtual meetings due to coronavirus considerations.

- 12-16 October, 2020 – Virtual, 13:00-16:30 UTC each day
- 30 November - 4 December, 2020 – Virtual, 14:00-17:30 UTC each day
- Spring, 2021 – Strasbourg, France (tentative)
- 4-8 October, 2021 – Minneapolis, Minnesota, US (tentative)
- 31 January - 4 February, 2022 – Portland, Oregon, US (tentative)

## 4.2 Future Mailing Deadlines

Note: Please request document numbers by one week before these dates.

- Post-Virtual-202008/Pre-Virtual-202010 (one mailing between this meeting and the next) – 11 September 2020
- Post-Virtual-202010/Pre-Virtual-202011 (one mailing between the next two meetings) – 30 October 2020
- Post-Virtual-202011 – 18 December 2020

## 5. Document Review

### Monday

5.1 Alepins, Const functions [[N 2477](#)] (expected to be replaced after the agenda is published by: Unsequenced functions [[N 2539](#)])

5.2 Ballman, Querying attribute support (updates N2411) [[N 2481](#)]

5.3 Ballman, Minor attribute wording cleanups (updates N2482) [[N 2527](#)]

### Tuesday

5.4 Ballman, Unclear type relationship between a format specifier and its argument (updates N2420) [[N 2483](#)]

5.5 Ballman, What we think we reserve (updates N2409) [[N 2493](#)]

5.6 Bachmann, Make pointer type casting useful without negatively impacting performance [[N 2484](#)]

5.7 Bachmann, Allow memory-reuse via pointer-casting [[N 2537](#)]

5.8 Bachmann, Add explicit\_memset() as non-optional part of C2X [[N 2485](#)]

5.9 Ojeda, secure\_clear [[N 2505](#)]

### Wednesday

5.10 Krause, register at file scope [[N 2486](#)]

5.11 Krause, short float [[N 2487](#)]

5.12 Krause, accessing const objects from signal handlers v2 [[N 2523](#)]

5.13 Krause, string functions for freestanding implementations [[N 2524](#)]

5.14 Krause, remove the fromfp, ufromfp, fromfpx, ufromfpx, and other intmax\_t functions [[N 2525](#)]

5.15 Thomas, C support for ISO/IEC 60559:2020 - updates n2488 [[N 2531](#)]

### Thursday

5.16 Thomas, C2X proposal - min-max functions - updates n2489 [[N 2532](#)]

5.17 Thomas, C2X proposal - powr justification, wording [[N 2491](#)]

5.18 Thomas, C2X proposal - note about preserving math function properties [[N 2492](#)]

5.19 Tydeman, snprintf [[N 2495](#)]

- 5.20 Tydeman, Range errors and math functions [[N 2506](#)]
- 5.21 Gustedt, A Common C/C++ Core Specification rev 2 [[N 2522](#)]

## Friday

- 5.22 Uecker, Free Positioning of Labels Inside Compound Statements (updates N2496) [[N 2508](#)]
- 5.23 Uecker, Compatibility of Pointers to Arrays with Qualifiers [[N 2497](#)]
- 5.24 Meneide, Restartable and Non-Restartable Functions for Efficient Character Conversions, r2 [[N 2500](#)]
- 5.25 Svoboda, Change request for C17 s3.4.3p3 [[N 2517](#)]

## 6. Clarification Requests

All clarification requests have been processed.

## 7. Other Business

**The following papers will be deferred to the next meeting unless there is time available at this meeting**

- 7.1 Krause, use const for data from the library that shall not be modified [[N 2526](#)]
- 7.2 Stoughton, Removal of deprecated functions [[N 2528](#)]
- 7.3 Pygott, Allowing the programmer to define the type to be used to represent an enum [[N 2533](#)]
- 7.4 Blower, Adding Fundamental Type for N-bit Integers [[N 2534](#)]

## 8. Resolutions and Decisions reached

- 8.1 Review of Decisions Reached
- 8.2 Review of Action Items

## 9. PL22.11 Business

### 9.1 Identification of PL22.11 Voting Members

- 9.1.1 Members Attaining initial Voting Rights at this Meeting
- 9.1.2 Members who regained voting rights

### 9.2 PL22.11 Voting Members in Jeopardy

- 9.2.1 Members in jeopardy due to failure to vote on Letter Ballots
- 9.2.2 Members in jeopardy due to failure to attend Meetings
  - 9.2.2.1 Members who retained voting rights by attending this meeting
  - 9.2.2.2 Members who lost voting rights for failure to attend this meeting

### 9.3 PL22.11 Non-voting Members

9.3.1 Prospective PL22.11 Members Attending their First Meeting

9.3.2 Advisory members who are attending this meeting

## **10. Thanks to Host**

11.1 Thanks and apologies to Philipp Krause, the originally intended host

11.2 Thanks to ISO for supplying Zoom capabilities

## **11. Adjournment (PL22.11 motion)**