

**WG14 N3110**

## **CFP continuation meeting**

**Tuesday, February 28, 2023**

**8 AM PST / 11 AM EST / 4 PM UTC**

Join from PC, Mac, Linux, iOS or Android:

<https://iso.zoom.us/j/95438175319?pwd=UVFVbHlNRGNvcnhwb2pDZjI5OGpLZz09>

Password: 726413

Or iPhone one-tap :

US: +14086380968,,95438175319# or +16692192599,,95438175319#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 408 638 0968 or +1 669 219 2599 or +1 669 900 6833 or +1 213 338 8477 or +1 971 247 1195 or +1 206 337 9723 or +1 253 215 8782 or +1 346 248 7799 or +1 602 753 0140 or +1 720 928 9299 or +1 786 635 1003 or +1 267 831 0333 or +1 301 715 8592 or +1 312 626 6799 or +1 470 250 9358 or +1 470 381 2552 or +1 646 518 9805 or +1 646 876 9923 or +1 651 372 8299 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Meeting ID: 954 3817 5319

Password: 726413

International numbers available: <https://iso.zoom.us/u/ane2HSijT>

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/95438175319>

## **Draft Agenda**

### **Meeting logistics**

Note taker, mail out notes

CFP wiki: <http://wiki.edg.com/twiki/bin/login/CFP/WebHome>

### **Introduction of attendees**

### **Approval of agenda**

### **Study group logistics**

Next CFP meeting date: March 28?

### **Notes from 2023-01-31 meeting**

<https://wiki.edg.com/pub/CFP/WebHome/n3100.pdf>

Posted on CFP wiki

## **WG 14 meeting report**

### **C++ liaison**

Floating-point rounding modes – see below.

## C23 integration

C23 drafts:

[CD](#)

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n3054.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n3047.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2596.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2573.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2478.pdf>

## Carry-over action items

David H: Get an example for the scaled reduction functions (perhaps by asking Jason or Jim or looking into the IEEE references).

<https://754r.ucbtest.org/background/traps-and-wraps.txt>

David H: Get an example for the augmented arithmetic functions (perhaps by asking Jason or Jim or looking into the IEEE references).

## Action items from 2022-07-27 meeting

Jim: CFP response to US42-169 should be copy the nextafter returns section, changing "nextafter" to "nexttoward".

Jim: Add in a link to CFP 2657 into CFP's response for GB-287.

Jim: Submit a CD comment resolution document for US42-169, GB-286, GB-287.

[N3105](#) 2023/02/08 Thomas, Issues with CFP response to NB comments - N3101 update

- [\[Cfp-interest 2679\] GB 287](#) *Fred J. Tydeman*

Jim: Look at FENV\_ROUND and use similar words from FENV\_DEC\_ROUND (7.6.3#2) to show the distinction between constant rounding modes and dynamic rounding.

- [\[Cfp-interest 2684\] Re: floating constants issue](#) *Jim Thomas*

Below, see log of email discussion about floating constants issues.

Jim: Add in something about assuming the decimal point is a single character to the comment for the #define MAXSIZE (or mention the C locale is assumed) in H.12.2#4 as a CD2 comment after clearing it with Vincent and an FYI to WG14.

- [\[Cfp-interest 2686\] Re: incorrect example H.12.2p4](#) *Jim Thomas*

## Other issues

Floating-point rounding modes

- [\[Cfp-interest 2561\] Fwd: Floating point environment](#) *Jim Thomas*
- [\[Cfp-interest 2581\] Floating point rounding modes](#) *Hans Boehm*
  - [\[Cfp-interest 2582\] Re: Floating point rounding modes](#) *Paul Zimmermann*
    - [\[Cfp-interest 2586\] Re: Floating point rounding modes](#) *Hans Boehm*
      - [\[Cfp-interest 2589\] Re: Floating point rounding modes](#) *Paul Zimmermann*
      - [\[Cfp-interest 2591\] Re: Floating point rounding modes](#) *Hans Boehm*
      - [\[Cfp-interest 2635\] Re: Floating point rounding modes](#) *Vincent Lefevre*
      - [\[Cfp-interest 2638\] Re: Floating point rounding modes](#) *Hans Boehm*
      - [\[Cfp-interest 2651\] Re: Floating point rounding modes](#) *Vincent Lefevre*
      - [\[Cfp-interest 2634\] Re: Floating point rounding modes](#) *Vincent Lefevre*
    - [\[Cfp-interest 2697\] Re: Floating point rounding modes](#) *Hans Boehm*

- [\[Cfp-interest 2698\] Re: Floating point rounding modes](#) *Paul Zimmermann*
- [\[Cfp-interest 2699\] Re: Floating point rounding modes](#) *Hans Boehm*

#### Floating constants

- [\[Cfp-interest 2659\] floating constants issue](#) *Jim Thomas*
- [\[Cfp-interest 2661\] Re: floating constants issue](#) *Vincent Lefevre*
- [\[Cfp-interest 2667\] Re: floating constants issue](#) *Jim Thomas*
- [\[Cfp-interest 2673\] Re: floating constants issue](#) *Vincent Lefevre*
  - [\[Cfp-interest 2674\] Re: floating constants issue](#) *Vincent Lefevre*
  - [\[Cfp-interest 2676\] Re: floating constants issue](#) *Jim Thomas*
  - [\[Cfp-interest 2677\] Re: floating constants issue](#) *Jim Thomas*
    - [\[Cfp-interest 2680\] Re: floating constants issue](#) *Jim Thomas*
      - [\[Cfp-interest 2681\] Re: floating constants issue](#) *Hans Boehm*
      - [\[Cfp-interest 2682\] Re: floating constants issue](#) *Jim Thomas*
      - [\[Cfp-interest 2693\] Re: floating constants issue](#) *Vincent Lefevre*
      - [\[Cfp-interest 2694\] Re: floating constants issue](#) *Jim Thomas*
  - [\[Cfp-interest 2683\] Re: floating constants issue](#) *Jim Thomas*
  - [\[Cfp-interest 2684\] Re: floating constants issue](#) *Jim Thomas*
    - [\[Cfp-interest 2685\] Re: floating constants issue](#) *Fred J. Tydeman*

#### Definition of "floating types"

- [\[Cfp-interest 2654\] definition of "floating types"](#) *Vincent Lefevre*

#### Review TS part 4 revision

- [\[Cfp-interest 2454\] Re: post-C23 update for TS 18661-4](#) *Jim Thomas*

#### Review TS part 5 revision

- [\[Cfp-interest 2560\] TS 18661-5 revision](#) *Jim Thomas*