

Agenda for August 25 - 29, 2025

73rd MEETING OF ISO/IEC JTC 1/SC 22/WG 14

WG 14/N3680

Dates and Times

25 August, 2025	08:45 – 12:00 Lunch 13:30 – 16:45
26 August, 2025	08:45 – 12:00 Lunch 13:30 – 16:45
27 August, 2025	08:45 – 12:00 Lunch 13:30 – 16:45
28 August, 2025	08:45 – 12:00 Lunch 13:30 – 16:45
29 August, 2025	08:45 – 10:45

Meeting Location

*Faculty of Business Mendel University in Brno
Building Q, Deanery at Ground Floor
Zemědělská 1665
613 00 Brno-sever-Černá Pole
Czechia*

Meeting information

Venue information: [N3541: Brno August 2025 Venue](#)

Meeting Scribe: [David Svoboda](#)

Local contact information

[Hana Dušíková](#)

1. Opening Activities

- ☐ 1.1 Opening Comments ([Seacord](#))
- ☐ 1.2 Introduction of Participants/Roll Call
- ☐ 1.3 Procedures for this Meeting ([Seacord](#))
- ☐ 1.4 Required Reading

1.4.1 [ISO Code of Ethics and Conduct](#)

1.4.2 [ISO Guidance and Process](#)

1.4.3 [IEC Code of Conduct](#)

1.4.4 JTC 1 Summary of Key Points [[N 2613](#)]

☐ 1.5 Approval of Previous Minutes

WG 14 Minutes, February 2025 [[N3583](#)] (motion)

Supporting documents for February 2025 minutes [[N3584](#)]

☐ 1.6 Review of Action Items

☐ 1.7 Approval of Agenda [Nxxxx] (motion)

☐ 1.8 Identify National Bodies Sending Experts

2. Reports on Liaison and Collaboration Activities

☐ 2.1 ISO, IEC, JTC 1, SC 22

☐ 2.2 National bodies in WG 14

☐ 2.3 WG 21

☐ 2.4 WG 23

☐ 2.5 MISRA C

☐ 2.6 Austin Group

☐ 2.7 Unicode Consortium

☐ 2.8 Other Liaison or Collaboration Activities

3. Study Groups

☐ Study Group Reports (5 minutes each)

☐ 3.1 C Floating Point Study Group activity report ([Rajan](#))

☐ 3.2 C Memory Object Model Study Group activity report ([Freek](#))

☐ 3.3 C and C++ Compatibility Study Group activity report ([Meneide](#), Nina)

☐ 3.4 Undefined Behavior Study Group activity report ([Svoboda](#))

☐ [Uecker](#), Ghosts and Demons: Undefined Behavior in the C2Y Core Language (Status Update) [[N3529](#)]

☐ 3.5 defer ([Meneide](#))

☐ [Meneide](#), defer Technical Specification (Committee Draft), r2 [[N3589](#)]

☐ 3.6 Memory Safety ([Uecker](#))

☐ 3.7 _Optional Study Group ([Bazley](#))

☐ [Bazley](#), Dogfooding the _Optional qualifier (v2) [[N3597](#)]

☐ 3.8 Infrastructure Group ([Meneide](#))

☐ 3.9 New Study Group proposal (if applicable)

☐ CRFI Study Group ([Celeste](#))

4. Future Meetings

☐ 4.1 Future Meeting Schedule

Spring, 2026 Part 1, February 2 - 6 : Virtual

Spring, 2026 Part 2, March 9 - 13 : Virtual

Fall, 2026 September 14-18: Somewhere, Ottawa ON, K2H 9C4

Candidate Host: [Suan Sunandha Rajabhat University](#)

☐ 4.2 Future Mailing Deadlines

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

Pre-Spring 2026 Part 1 – 2 January, 2026

Post-Spring 2026 Part 1 – 6 March, 2026

Pre-Spring 2026 Part 2 – 9 February, 2026

Post-Spring 2026 Part 2 – 13 April, 2026

5. Document Review

Monday, 25 August

- ☐ [Celeste](#), Straw poll on TS 25007 "C Extensions to Support Generalized Function Calls", committee draft [[N3582](#)] (5 minutes)

Morning break

- ☐ [Uecker](#), Arrays (0.5 hours)
 - ☐ Matching of Multi-Dimensional Arrays in Generic Selection Expressions (updates N3290) [[N3348](#)]
 - ☐ Comments on Array Type [[N3428](#)]
- ☐ The `__COUNTER__` argument
 - ☐ [Gustedt](#), The `__COUNTER__` predefined macro [[N3457](#)] (0.5 hours)
 - ☐ [Johnson](#), Counter Directive [[N3636](#)] (0 hours)

- ☐ [Chronister](#), Initializing static and thread objects with compound literals [[N3235](#)] (0.5 hours)
- ☐ [Meneide](#), `__self_func`, r2 [[N3486](#)] (0.5 hours)

Lunch Break

- ☐ Forward declarations (0.5 hours)
 - ☐ [Na](#), Dependent attributes [[N3656](#)]
 - ☐ [Bazley](#), Alternative syntax for forward declaration of parameters [[N3433](#)]

Afternoon break

- ☐ Constant Expressions
 - ☐ [Gustedt](#), Chasing Ghosts I: constant expressions v2 [[N3558](#)] (0.5 hours)
- ☐ [Myers](#), Open Issue Processing (1.5 hours)

[Myers](#), Open Issue processing C23 issue log, r1 [[N3609](#)]

Tuesday, 26 August

- ☐ [Gustedt](#), Another daemon: waiting for condition variables [[N3559](#)] (0.5 hours)

Morning break

- ☐ [Múgica](#), Phrase semantic boolean operators as if bool, v. 1.1 [[N3602](#)] (0.5 hours)
- ☐ [Múgica](#), Floating literals converted to bool [[N3545](#)] (0.5 hours)
- ☐ [Myers](#) Floating-point TS 18661 (C23 version, 2025) issue log, r1 [[N3610](#)]
- ☐ [Colomar](#), Relax restrictions on standard attributes [[N3631](#)] (0.5 hours)
- ☐ [Gustedt](#), Function call without decay [[N3557](#)] (0.5 hours)
- ☐ [Colomar](#), Rename s/uimaxabs/umaxabs/ [[N3577](#)] (0.25 hours)
- ☐ [Colomar](#), Adopt qualifier conversion rules from C++ [[N3629](#)] (0.5 hours)

Lunch Break

- ☐ [Bazley](#), Type qualifiers do not apply to type categories [[N3511](#)] (0.25 hours)
- ☐ [Colomar](#), add `streq()` [[N3611](#)]
- ☐ [Seacord](#), generic_count_type, v1.0.0 [[N3593](#)] (0.5 hours)
- ☐ [Meneide](#), Thread Attributes, r1 [[N3627](#)] (0.5 hours)

Afternoon break

- ☐ [Meneide](#), Transparent Aliases, r5 [[N3487](#)] (0.5 hours)

- ☐ [Meneide](#), embed Synchronization, r1 [[N3490](#)] (0.5 hours)

Wednesday, 27 August

- ☐ [Seacord](#), Integer Sets, v2 [[N3644](#)] (0.5 hours)
- ☐ [Uecker](#), Earthly Demon XV: Definition of Main (Updates n3562) [[N3623](#)] (0.25 hours)
- ☐ [Uecker](#), Representation of Pointers and `nullptr_t` [[N3563](#)] (0.25 hours)
- ☐ [Ballman](#), Member access of an incomplete object [[N3532](#)] (0.25 hours)
- ☐ [Coates](#), Slaying some earthy demons - remove UB 28, 29 [[N3565](#)] (0.25 hours)

Morning break

- ☐ [Coates](#), Slaying Some Earthly Demons - remove UB 30 (0.25 hours)
 - ☐ approach 1 [[N3603](#)]
 - ☐ approach 2 [[N3604](#)]
- ☐ [Gustedt](#), static_assert without UB [[N3525](#)] (0.5 hours)
- ☐ [Mailhol](#), Static assertions in expressions, v2 (updates n3538) [[N3637](#)] (0.5 hours)
- ☐ [Douglas](#), Standard secure networking [[N3533](#)] (0.5 hours)

Lunch Break

- ☐ [Meneide](#), Integer Constant Expression-Initialized const Integer Declarations are Implicitly constexpr, r1 [[N3600](#)] (0.5 hours)
- ☐ [Meneide](#), Additional Half-Open case Range Syntax, r1 [[N3601](#)] (0.5 hours)
- ☐ [Meneide](#), Literal Suffixes for size_t, r2 [[N3485](#)] (0.5 hours)

Afternoon break

- ☐ [Douglas](#), Lingua franca Results [[N3599](#)] (0.5 hours)
- ☐ [Colomar](#), Restore the traditional realloc(3) specification [[N3621](#)] (0.5 hours)

Thursday, 28 August

- ☐ [Gustedt](#), Add type-safe minimum and maximum type-generic macros [[N3543](#)] (0.5 hours)
- ☐ [Gustedt](#), Clean up atomics, non-normative changes v4 [[N3606](#)] (0.5 hours)
- ☐ [Douglas](#), Modern signals handling [[N3540](#)] (0.5 hours)

Morning break

- ☐ [Múgica](#), Classification of the register storage-class specifier [[N3544](#)] (0.25 hours)
- ☐ [Steenberg](#), Effective Type in C [[N3519](#)] (0.25 hours)

- ☐ [Celeste](#), Simplified lexical scope for labels, v2 [[N3658](#)] (0.5 hours)
- ☐ [Thomas](#), `frexp` and double-double (updates N3357) [[N3535](#)] (0.25 hours)
- ☐ [Lenga](#), Adding struct enum: Strongly-Typed Enumerations for C [[N3568](#)] (0.5 hours)
- ☐ [Lenga](#), Additional String comparison functions to complement `strcmp` V2 [[N3567](#)] (0.5 hours)

Lunch Break

- ☐ [Thomas](#), Clarify wording for 7.3.9.5 - `cproj` [[N3536](#)] (0.25 hours)
- ☐ [Thomas](#), Correct and clarify 7.3.1 Introduction of Complex arithmetic [[N3537](#)] (0.25 hours)
- ☐ [Thomas](#), Clarification for complex suffix specification [[N3500](#)] (0.25 hours)
- ☐ [Thomas](#), Make text consistent between `creal` & `cimag` [[N3598](#)] (0.25 hours)
- ☐ [Gustedt](#), Retire the concept of consume operations [[N3607](#)] (0.5 hours)
- ☐ [Douglas](#), Variable length prefixed length strings [[N3608](#)] (0.5 hours)
- ☐ [Colomar](#), Add operators `_Minof` and `_Maxof` [[N3628](#)] (0.5 hours)

Afternoon break

- ☐ [Colomar](#), Allow calling static inline within extern inline [[N3622](#)] (0.5 hours)
- ☐ [Colomar](#), Refactor syntax of directives [[N3632](#)] (0.5 hours)
- ☐ [Colomar](#), (potentially) reserve `stp*()`, `wcp*()`, `memp*()`, `wmemp*()` [[N3614](#)] (0.5 hours)
- ☐ [Colomar](#), add `stpcpy(3)`, `wcpcpy(3)`, `mempcpy(3)`, `wmempcpy(3)` [[N3662](#)] (0.5 hours)
- ☐ [Colomar](#), add `memeq()`, `wmemeq()` [[N3617](#)] (0.5 hours)
- ☐ [Colomar](#), add `[w]memzero()`, `[w]memzero_explicit()` [[N3619](#)] (0.5 hours)

Friday, 29 August

- ☐ [Múgica](#), Discarded, IV [[N3549](#)] (0.5 hours)
- ☐ [Múgica](#), What does “to evaluate a type name” mean? [[N3548](#)] (0.5 hours)
- ☐ [Múgica](#), Generic replacement (v. 2 of quasi-literals) [[N3605](#)] (0.5 hours)
- ☐ [Múgica](#), What are the operands of Generic [[N3561](#)] (0.5 hours)

Adjourn at 10:45 AM

7. Other Business

If time

- ☐ [Johnson](#), Namespaces Without Name Mangling [[N3491](#)] (0.5 hours)
- ☐ [Johnson](#), Generic Data Structures Without Name Mangling [[N3520](#)] (0.5 hours)
- ☐ [Colomar](#), add `strpfx()`, `stppfx()`, `wcspfx()`, and `wcppfx()` [[N3612](#)] (0.5 hours)
- ☐ [Colomar](#), add `strsfx()`, `stpsfx()`, `wcssfx()`, `wcpsfx()` [[N3613](#)] (0.5 hours)
- ☐ [Celeste](#), Remove the imaginary I, v2 [[N3581](#)] (0.5 hours)
- ☐ [Celeste](#), ``if`` declarations, v5.1, wording improvements [[N3580](#)] (0.5 hours)
- ☐ [Celeste](#), ``auto`` as a placeholder type specifier, v3 [[N3579](#)] (0.5 hours)
- ☐ [Ornato](#), Declaration-level static assertions [[N3641](#)] (0.5 hours)
- ☐ [Łukaszewicz](#), Clarify terminology for obsolete features [[N3642](#)] (0.5 hours)
- ☐ [Adams](#), Literal functions [[N3645](#)] (0.5 hours)
- ☐ [Thomas](#), Clarification of range error condition for `atan2v` [[N3646](#)] (0.25 hours)
- ☐ [Thomas](#), Semantic rules for constant evaluation [[N3647](#)] (0.25 hours)
- ☐ [Thomas](#), Improved language for return type vs. return value [[N3648](#)] (0.25 hours)
- ☐ Krause, Named Address Space Type Qualifiers for C2Y [[N3651](#)] (0.5 hours)
- ☐ [Uecker](#), Accessing the Context of Nested Functions [[N3654](#)] (0.5 hours)
- ☐ Banham, Make implicit undefined behaviour in `mtx_destroy()` explicit [[N3655](#)] (0.5 hours)
- ☐ [Meneide](#), Functions with Data: Closures in C [[N3657](#)] (0.5 hours)
- ☐ [Belov](#), Considering expressions based on restrict pointers as pure rvalue expressions [[N3659](#)] (0.5 hours)
- ☐ [Colomar](#), add a `malloc(3)`-based `sprintf(3)` variant [[N3660](#)] (0.5 hours)
- ☐ [Colomar](#), Standard prefixed attributes [[N3661](#)] (0.5 hours)
- ☐ [Colomar](#), add `stpssp()`, `stpcssp()`, `wcspssp()`, `wcpcssp()` [[N3663](#)] (0.5 hours)
- ☐ [Colomar](#), add `strchrnt()`, `strchrst()`, `wcschrnt()`, `wcschrst()` [[N3664](#)] (0.5 hours)
- ☐ [Colomar](#), add `st*rspn()`, `st*rcspn()`, `wc*rspn()`, `wc*rcspn()` [[N3665](#)] (0.5 hours)
- ☐ [Colomar](#), add `stpsep()`, `wcpsep()` [[N3666](#)] (0.5 hours)
- ☐ [Colomar](#), add `strsep()`, `wcssep()` [[N3667](#)] (0.5 hours)
- ☐ [Colomar](#), Split formatted I/O sections (Editorial) [[N3668](#)] (0.5 hours)
- ☐ [Colomar](#), Split memory management section (Editorial) [[N3669](#)] (0.5 hours)
- ☐ [Colomar](#), Rename `s/strpbrk/strchrst/` [[N3670](#)] (0.5 hours)
- ☐ [Colomar](#), Subdivide string API sections [[N3671](#)] (0.5 hours)
- ☐ [Gustedt](#), Properly specify the interaction of library calls for mutexes [[N3672](#)] (0.5 hours)
- ☐ [Gustedt](#), Properly specify the interaction of library calls for condition variables [[N3673](#)] (0.5 hours)
- ☐ [Svoboda](#), WG14's C indentation and brace styles [[N3650](#)] (0.5 hours)

- ☐ [Svoboda](#), Educational Undefined Behavior [[N3534](#)] (0.5 hours)
- ☐ [Bazley](#), Enhanced type variance (v2) [[N3674](#)] (0.5 hours)
- ☐ [Uecker](#), Earthly Demon: Accessing a Member of an Atomic Structure or Union (Updates n3564) [[N3624](#)] (0.5 hours)

Scheduled for Spring 2026:

- ☐ [Colomar](#), Add directives #def and #endif (updates n3524) [[N3531](#)] (0.5 hours)
- ☐ [Colomar](#), sizeof(void) == 1 [[N3522](#)] (0.5 hours)
- ☐ [García](#), typeof(return) [[N3454](#)] (0.5 hours)
- ☐ [Meneide](#), `_Any_func_t` - A Universal Function Pointer Storage Type, r1 [[N3625](#)] (0.5 hours)
- ☐ [Meneide](#), printf string size specifiers (and general precision length modifiers), r2 [[N3626](#)] (0.5 hours)
- ☐ [Gerasimov](#), Mandatory diagnostic message on missing return statements [[N3483](#)] (0.5 hours)
- ☐ [Lenga](#), cleaner c/c++ headers boilerplate with 'extern' blocks [[N3458](#)] (0.5 hours)
- ☐ [Jabot](#), Preserving `LC_CTYPE` at program start for UTF-8 locales [[N3539](#)] (0.5 hours)

Old papers that haven't been scheduled yet pending request from the author:

- ☐ [Bachmann](#), Make pointer type casting useful without negatively impacting performance - updates n2484 [[N2658](#)]
- ☐ Grüniger, Add min, max for integers to C [[N3160](#)]

8. Recommendations and Decisions reached

- ☐ 8.1 Review of Decisions Reached
- ☐ 8.2 Review of Action Items
- ☐ 8.3 Review of online votes
- ☐ 8.4 Reapprove agenda

9. Thanks to Host

10. Adjournment (motion)