

Updated Agenda for 10-14 June, 2024  
70th MEETING OF ISO/IEC JTC 1/SC 22/WG 14  
WG 14/N3283

---

### Dates and Times

10 June, 2024	13:30 – 17:00 UTC
11 June, 2024	13:30 – 17:00 UTC
12 June, 2024	13:30 – 17:00 UTC
13 June, 2024	13:30 – 17:00 UTC

### Meeting Location

*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

Robert Seacord <[rcseacord@gmail.com](mailto:rcseacord@gmail.com)>

### 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, January 2024 [[N3227](#)] (motion)

- 1.6 Review of Action Items and Resolutions
- 1.7 Approval of Agenda [[n3213](#)] (motion)
- 1.8 Identify National Bodies Sending Experts
- 1.9 Note where we are in the current C23 schedule [[N 3156](#)]

## 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

- 3.1 C Floating Point Study Group activity report ([Rajan](#))
- 3.2 C Memory Object Model Study Group activity report ([Sewell](#))
- 3.3 C and C++ Compatibility Study Group activity report ([Meneide](#), [Nina](#))
- 3.4 Undefined Behavior Study Group activity report ([Svoboda](#))
- 3.5 New Study Group proposal (if applicable)
- 3.6 Infrastructure Group ([Meneide](#))

## 4. Future Meetings

- 4.1 Future Meeting Schedule

30 September - 04 October, 2024 Minneapolis, Minnesota Hybrid

Spring, 2025 Candidates: Graz, Austria; Spain, Bristol, UK

- 4.2 Future Deadlines

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

Pre-Virtual – 10 May, 2024

## 5. Document Review

### Monday, 10 June

- 5.0 [Ballman](#), alignof of an incomplete array type [[N3053](#)] (0.5 hours)
- 5.1 [Ballman](#), Allow zero length operations on null pointers [[N3261](#)] (0.5 hours)
- 5.2 [Uecker](#), A String Type for C [[N3210](#)] (0.5 hours)
- 5.3 [Uecker](#), Memory-Safety in C [[N3211](#)] (0.5 hours)
- 5.4 Krause, Restrict atomic\_flag creation [[N3246](#)] (0.5 hours)

### Tuesday, 11 June

- 5.5 [Ballman](#), Generic selection expression with a type operand [[N3260](#)] (0.5 hours)
- 5.6 [Lukasiewicz](#), [Seacord](#), The C Standard Charter [[N3255](#), [N3223](#)] (0.5 hours)
- 5.7 [Thomas](#), Proposal for C2Y -- Recommendation for printf rounding [[N3233](#)] (0.5 hours)
- 5.8 [Thomas](#), Problematic use of “correctly rounded” [[N3242](#)] (0.5 hours)
- 5.9 [Thomas](#), Proposal for C2Y -- Round-trip rounding [[N3232](#)] (0.5 hours)
- 5.10 [Gustedt](#), The semantics of the restrict qualifier [[N3234](#)] (0.5 hours)
- 5.11 [Gustedt](#), Some constants are literally literals v2 [[N3239](#)] (0.5 hours)
- 5.12 [Gustedt](#), Remove imaginary types [[N3263](#)] (0.5 hours)

### Wednesday, 12 June

- 5.13 [Gustedt](#), Introduce complex literals [[N3241](#)] (0.5 hours)
- 5.14 [Uecker](#), Polymorphic Types [[N3212](#)] (0.5 hours)
- 5.15 [Seacord](#), Accessing byte arrays, v4 [[N3254](#)] (0.5 hours)
- 5.16 [Bazley](#), strb\_t: A standard string buffer type [[N3250](#)] (0.5 hours)
- 5.17 [Bazley](#), Standardize strlen and wcsnlen [[N3252](#)] (0.5 hours)
- 5.18 [Svoboda](#), Writing to multibyte character files [[N3064](#)] (0.5 hours)
- 5.19 [Douglas](#), fopen "p" and bring fopen's mode closer to POSIX 202x [[N3247](#)] (0.5 hours)

### Thursday, 13 June

- 5.20 Steenberg, A Memory model with Synchronization based type aliasing V1 [[N3243](#)] (0.5 hours)
- 5.21 [Uecker](#), Slay Some Earthly Demons I [[N3244](#)] (0.5 hours)
- 5.22 [Gustedt](#), Inline functions accessing identifiers declared with constexpr [[N3253](#)] (0.5 hours)

- 5.23 [Ballman](#), Support ++ and -- on complex values [[N3259](#)] (0.5 hours)
- 5.24 [Seacord](#), Usability of a byte-wise copy of va\_list [[N3262](#)] (0.5 hours)
- 5.25 [Ballman](#), alignof of an incomplete array type (updates N3273)
- 5.26 [Gustedt](#), Remove imaginary types v3 [[N3274](#)] (0.5 hours)
- 5.27 [Uecker](#), Slay Some Earthly Demons I [[N3244](#)] (0.5 hours)

## 6. Clarification Requests

The previous queue of clarification requests has been processed.

## 7. Other Business

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

- [N2658](#) 2022/01/03 [Bachmann](#), Make pointer type casting useful without negatively impacting performance - updates n2484
- [N2995](#) 2022/06/22 [Meneide](#), \_\_supports\_literal needs serious design tweaking and there are likely better, less overt ways to solve the same problem
- [N3095](#) 2023/01/30 [Meneide](#), Restartable Functions for Efficient Character Conversion, r11 Another update to this paper must be made
- [N3160](#) 2023/08/20 [Grüninger](#), Add min, max for integers to C
- [N3104](#) 2023/02/07 [Meneide](#), More Modern Bit Utilities, r2: Another update to this paper must be made
- [N3155](#) 2023/10/14 [Svoboda](#), Examples of Undefined Behavior
- [N3121](#) 2023/04/23 [Uecker](#), Forward Declaration of Parameters v2 (Updates N2780)
- [Johnson](#), Unicode Length Modifiers v3 [[N3016](#)] (0.5 hours)

## 8. Recommendations and Decisions reached

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

## 9. Thanks to Host

## 10. Adjournment (motion)