Goals Proposal for X3J16

- Stroustrup Ref Manual & X3J11 are base documents
  - Parm types and exceptions excluded from base
  - Acceptance of base docs critical for timely completion
  - Will help preserve current C++ applications
Goals Proposal for X3J16 (cont)

- Standardize core C++ language
  - Clear and unambiguous specification
  - Compatibility with Stroustrup ref manual
  - Compatibility with ANSI C
  - Consistency
  - Portability
  - Efficiency
  - Expressiveness
  - Ease of implementation
Goals Proposal for X3J16 (cont 1)

• Define and standardize C++ libraries - I/O at minimum

• Standardize a C++ environment
  □ Headers
  □ Preprocessor
  □ Program structure
  □ Program invocation
  □ Program termination
  □ Interface to other languages

• Define major extensions to base documents including parameterized types and exception handling
  □ Extensions MUST be validated by user and implementer experience
Goals Proposal for X3J16 (cont 2)

- Ensure that the X3J16 standard is suitable for international community
- Ensure a very high level of compatibility with ANSI C
  - Establish a voting liason with X3J11
  - Complete, 100% compatibility is not forseen
- Use working groups to do the work, use X3J16 to ratify/reject results
- Produce three major deliverables: standard, rationale, examples
  - Begin work on a purpose document immediately
  - Precise English specification is a must, formal spec is optional
  - Address C/C++ compatibility, limits/implementation restrictions, portability, formal grammar specification
Goals Proposal for X3J16 (cont 3)

- Deliver a draft standard to X3 by early 1992
  - summer 1990 - purpose document, working group outlines
  - spring 1991 - work group results due
  - late 1991 - first draft C++ standard approved by X3J16
  - early 1992 - draft standard submitted to X3 for public comment