Wording for std::uncaught_exceptions

This paper provides proposed wording for N4152.

Replace clause 15.5.3 [except.uncaught] with the following:

**15.5.3 The std::uncaught_exceptions() function [except.uncaught]**

1 An exception is considered uncaught after completing the initialization of the exception object (15.1) until completing the activation of a handler for the exception (15.3, 18.8.4). This includes stack unwinding. If the exception is rethrown (15.1), it is considered uncaught from the point of rethrow until the rethrown exception is caught again. The function std::uncaught_exceptions() (18.8.4) returns the number of uncaught exceptions.

In 18.8 [support.exception] “Header <exception> synopsis”, add the following below uncaught_exception:

```cpp
int uncaught_exceptions() noexcept;
```

Replace clause 18.8.4 [uncaught] with the following:

**18.8.4 uncaught_exceptions() [uncaught.exceptions]**

```cpp
int uncaught_exceptions() noexcept;
```

1 **Returns**: The number of uncaught exceptions (15.5.3).

2 [Note: When uncaught_exceptions() > 0, throwing an exception can result in a call of std::terminate() (15.5.1). – end note]

In Annex D, add:

**D.x uncaught_exception [depr.uncaught]**

```cpp
bool uncaught_exception() noexcept;
```

1 **Returns**: uncaught_exceptions() > 0.