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# Committee C26 Nuclear Fuel Cycle

50th Anniversary  
1969-2019

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# ASTM Committee C26 - Nuclear Fuel Cycle

## Fifty-Year History

In the 1950s, the nuclear industry was growing and numbers of reactors were in the planning stage. The American Standards Association (ASA) studied the need for nuclear standards, decided that the time was right and formed committee N5.1. Several standards were written with the most widely distributed being a manual on test methods for uranium dioxide.

In 1962, ASTM became interested in these new articles of commerce. Its response was to form a subcommittee within Committee C21, Ceramic White-ware and Related Products, to study ceramic materials for nuclear applications. It began by reviewing private and government specifications for ceramic materials that were being used, or proposed for use, as nuclear fuels in thermal reactors. Working with ASA, four specifications and methods of test were developed and approved by the United States of America Standards Institute (USASI).

In 1967, the Nuclear Standards Board (NSB) of USASI assigned ASTM the responsibility for basic materials and materials testing involved in nuclear service. To better implement their responsibility in the area of nuclear fuel materials, the ASTM Board of Directors authorized an expansion of scope and full committee status for the ASTM-connected work on fuel materials.

### C26 Elected Officers Timeline, 1967-Present

Harlan Anderson  
1969-75

Larry Corbin  
1969-71

Fred Miner  
1972

Larry Corbin  
1973-75

R. Cooperstein  
1969-70

Fred Miner  
1971

Larry Corbin  
1972

Fred Miner  
1973-75

Bill Pardue  
1969-75

■ = Chairman    
 ■ = First Vice-Chairman    
 ■ = Second Vice-Chairman    
 ■ = Recording Secretary    
 ■ = Membership Secretary

1970



As part of this expansion, Subcommittee C21.05 solicited former members from the ASA N5.1 committee and several new members from industry. In November 1968, the organizational meeting of this new committee (C26) was held. The name chosen was Committee on Fuel, Control, and Moderator Material for Nuclear Reactor Applications. The responsibilities of Committee C26 were for methods of test, definitions of terms, classifications, and specifications for fissionable and fertile materials and solid control and moderator materials, excluding graphite, intended for use in nuclear core components.

There were five working subcommittees within C26: C26.01, Nomenclature, defined terms used in C26 specifications and test methods; C26.02, Fuel Specifications, wrote specifications for materials such as uranium dioxide powder and pellets, mixed oxide, plutonium oxides, etc.; C26.03, Control Materials, wrote specifications for B4C, Ag-In-Cd, and Al<sub>2</sub>O<sub>3</sub>-B4C; C26.04 dealt with moderators such as beryllium oxide; and C26.05 developed test methods. The first annual report to ASTM noted that the membership was 59.

Larry Corbin  
1976-81

Bill Pardue  
1976-81

J.J. Stiglich  
1976-79

G.R. Waterbury  
1976

W.B. Brown  
1977-79

## About C26

### Committee Name Change

By 1978, C26 was eight years old, membership had almost doubled and the number and focus of subcommittees had grown beyond the original scope. In July 1978, the committee name was changed to Nuclear Fuel Cycle and its scope updated to describe its new direction. In the years following these changes, subcommittees on waste materials, nuclear processing, non-destructive assay, reference materials, safeguards, waste packaging, and long-range planning were formed to pursue the goal to provide standards for the Nuclear Fuel Cycle.

### Annual Book of ASTM Standards

In the early days of C26, specifications and methods of test were scattered through several volumes. In 1974, the Standards series was reorganized for a more logical grouping. All nuclear related methods developed by C26 and E10 were placed in a single volume. As the number of C26 and E10 standards increased, a further reorganization took place in 1983. At that time, C26 standards were placed in Volume 12.01, Nuclear Energy and the E10 standards placed in Volume 12.02. Currently there are 83 C26 standards in Volume 12.01. In recent years, C26 has averaged 30-35 ballot items between semi-annual meetings. Many of these ballot actions are to conduct the required five-year reviews.

Nancy Trahey  
1982-87

Sam Weaver  
1982-87

Nancy Trahey  
1980-81

Bill Laing  
1982-87

Bob Carpenter  
1980-85

## Dudley Award

In 1981, C26 won the ASTM Dudley Award for publications. This award, presented annually, is named for Charles B. Dudley, the first President of ASTM. It is to recognize excellence in publication and is usually awarded for individual papers presented at a symposium or a series of papers. The 1981 Award to C26 was given for all the C26 standards in the Annual Book of ASTM Standards. This was the first time since the award’s inception in 1927 that it had been presented for a committee’s standards and it has never been done again. The award recognized both the quality and quantity of these standards. C26 was 12 years old at that time and published more standards than any other committee had in this length of time. The award consisted of an engraved plaque and a check for \$500.

## Energy Emphasis Seminars

After the Arab oil crisis in 1973-1974, America began to wrestle with the problem of uncertain energy supplies. The Atomic Energy Commission’s name was changed to the Energy Research and Development Agency (ERDA) and its mission was expanded to include other forms of energy. Jack Bystrom, staff manager for C26 and E10, proposed that the two committees sponsor an Energy Emphasis Seminar to bring together speakers for alternate energy sources. The first such gathering was in 1978 and brought together experts from coal, solar, geothermal, nuclear, and energy planning. These seminars continued every two years until 1990 when lower oil prices and reduced funding for solar and geothermal research reduced interest and attendance. C26 was instrumental in providing a forum for alternate energy views when our nation was searching for answers.

## Recognition of the 50th Anniversary of the Manhattan Project

At the January 1993 San Antonio meeting, an afternoon seminar was presented to look back at the history of the nuclear age. Speakers described the early days at Argonne (Norbert Golchert), Hanford (Don Sandburg), Oak Ridge (Bill Laing), and Los Alamos (Larry Bruckner). The presentations reminded us of how much was accomplished in those days and how much it has changed.

Bill Laing  
1988-93

Milt Campbell  
1988-93

G. Kilp  
1988-90

Merril Hume  
1986-89

Sandra Frattali  
1987-93

## C26 Anniversary Events

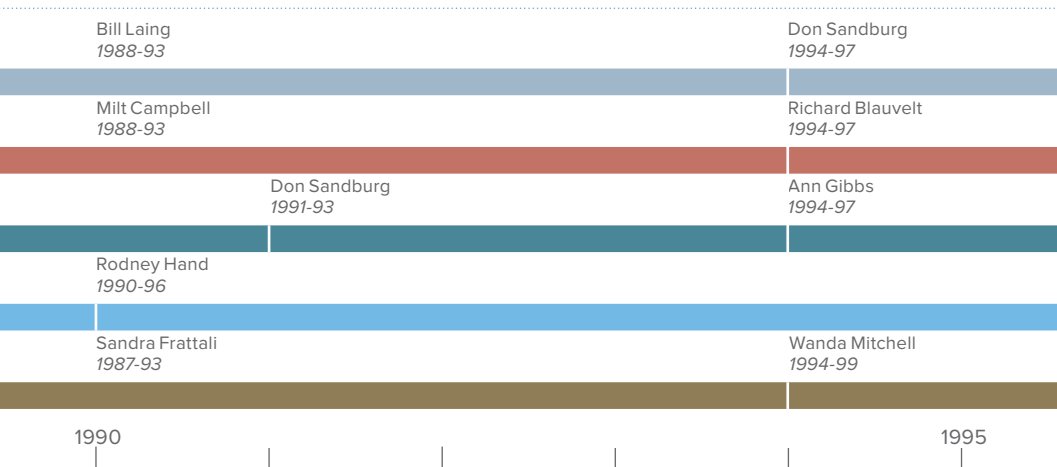
The members of C26 have taken the opportunity to stop and reflect on the progress and events associated with the history of C26. The first anniversary to be celebrated was the tenth with a dinner at the Hilton Hotel in San Diego, California, in January 1979. Although no attendance was kept, it appears to have been well attended. The next anniversary was the 25th which was held at the Picacho Plaza Hotel in Santa Fe, New Mexico, in July 1994. There was an excellent attendance at this event with an estimated one hundred present. A 25-year history of C26 was prepared and distributed at this dinner. The 30th anniversary was held in Seattle, Washington, in June 1999, and was celebrated with a salmon bake on Blake Island. About 60 members attended this event. The 35th anniversary was held at the Hyatt Regency Crown Center in Kansas City, Missouri, in June 2004. About 50 members attended this event. The 40th anniversary dinner was held in Oak Ridge, Tennessee, in June 2009, at the Peerless restaurant with about 30 in attendance.

## Growth of Members

The first annual report from C26 to ASTM in December 1969 indicated that there were 59 members. Membership remaining at this level through 1975 and then began to grow. One hundred members was reached in 1977 and increased to 150 members by 1982.

By 1991, the membership had increased to 200 and has remained at this level to this date. The growth in membership came with the increase in the number of subcommittees and the push of C26 into these new areas. Foreign membership increased sharply during the development of specifications for uranium hexafluoride which was begun in the early 1990s. Attendance during this period typically exceeded one hundred.

Although the C26 membership has stayed at about two hundred, the attendance has slowly decreased to where the current attendance is about sixty members. This decline is probably due to retirements and the inability to recruit new members.



## Charter Members

The charter members list in the Membership Handbook from January 1979 which recognized the first ten years of ASTM Committee C26 included the following:

H. J. Anderson	L. T. Corbin
W. A. Maxwell	J. H. Schemel
M. H. Campbell	C. G. Goldbeck
D. M. Noble	J. F. Soppet
J. M. Leabby	J. M. Kerr
W. M. Pardue	W. N. Thomas
R. Cooperstein	O. L. Kruger
G. K. Rhode	

This is the list of the attendees at the November 1968 organizing meeting held in Washington, DC.

The minutes of the subcommittee C26.05 from the meeting held on May 5-6, 1969 in New Orleans, listed 14 subcommittee attendees. Only four of the subcommittee attendees are on the charter member listing.

Richard Blauvelt  
1998-2003

Ann Gibbs  
1998-2003

John Renouf  
1998-2003

Pamela Howell  
1998-2001

## C26 Leadership

C26 has been fortunate to have had excellent leadership throughout its history. The Chairman of C26 is limited to three consecutive two-year terms and most Chairmen have served three terms which resulted in significant longevity within the Chairman position. The Chairman, their affiliation, and term of office are listed below;

### Chairmen

#### Harlan Anderson

Westinghouse Hanford  
1969-1975

#### Larry Corbin

Oak Ridge National  
Laboratory  
1976-1981

#### Nancy Trahey

New Brunswick  
Laboratory  
1982-1987

#### Bill Laing

Oak Ridge National  
Laboratory  
1988-1993

#### Don Sandburg

Westinghouse Hanford  
1994-1997

#### Richard Blauvelt

Waste Policy Institute  
1998-2003

#### Gary L. Smith

Pacific Northwest  
National Laboratory  
2004-2009

#### Dale Wahlquist

Idaho National  
Laboratory  
2010-2015

#### Hemant Shah

Westinghouse  
2016

Several C26 members served ASTM in various other capacities. Nancy Trahey was elected to the ASTM Board of Directors in 1983 and then advanced in office to Treasurer, Vice-Chairman of the Board, before becoming ASTM Chairman in 1993. Bertrand Morel was elected to the ASTM Board of Directors in 2014. Bill Laing served a term on the ASTM Committee on Technical Committee Operations and chaired the Long-Range Planning Committee Mike Brisson served a term on the Committee on Standards (COS) from 2016-2018.

Richard Blauvelt  
1998-2003

Ann Gibbs  
1998-2003

John Renouf  
1998-2003

Pamela Howell  
1998-2001

Bill Palmer  
2000-01

Donna Beals  
2002-07

Marilyn Law  
2002-05

Gary L. Smith  
2004-09

Wanda Mitchell  
2004-05

Catherine Vever  
2004-2009

2000

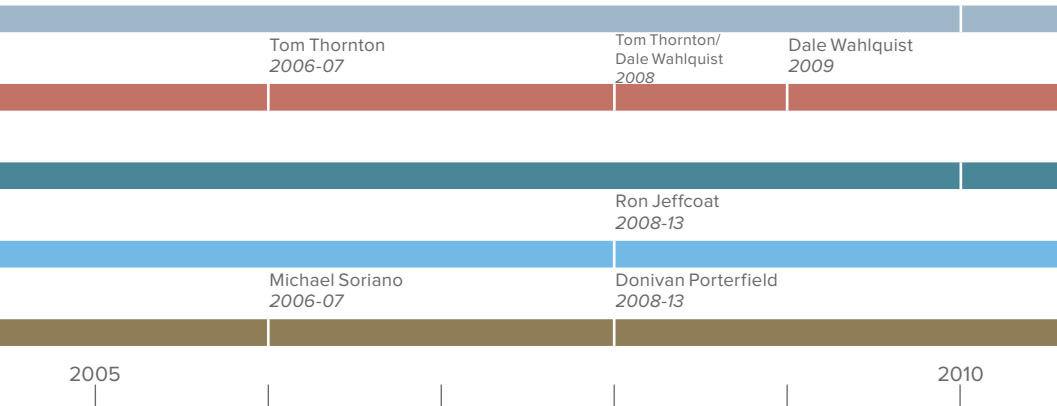
2005

## ASTM Staff Managers

ASTM assigns a staff manager to each committee to provide guidance, support, and communication with ASTM to ensure that the ASTM operating rules and regulations are followed. In these past fifty years, C26 has had 11 staff managers. Their terms of service are collected below.

Jack Bystrom	1969-1979
Janet Schroeder	1979-1981
Ken Pearson	1982-1984
Matt Lieff	1985-1986
Kathie Schaff	1987-1990
Pat Barr	1991-1994
Bill Brown	1995-1996
Felicia Quinzi	1997-2000
Jeff Adkins	2000-2007
Joe Koury	2007-2016
Stephen Mawn	2016 - present

C26 has been a good training ground for up and coming ASTM staffers. After their indoctrination with C26, Ken Pearson was Vice-President of ASTM, Matt Lieff was Manager, Standards Technology Training, and Kathie (Schaff) Morgan is President of ASTM. Jack Bystrom, the first C26 staff manager has retired, lives in Stuart, Florida, and is still active in C26 and E10 projects.



## C26 Subcommittee Leadership

### C26.01 Terminology

W. R. Laing	1974-75
Nancy Trahey	1976-80
Evan Morgan	1981-82
R. H. Kent	1983-87
Sandra Frattali	1988-99
Inactive	2000-03
Charles Interrante	2004-07
Donivan Porterfield	2008 – present

### C26.02 Fuel and Fertile Material Specifications

F. J. Miner	1969-75
R. A. Nadler	1976-79
J. M. Kerr	1980-81
G. R. Kilp	1982-90
Tom Thornton	1991-2008
Bertrand Morel	2008-present

### C26.03 Neutron Absorber Material Specifications

Frank Lewis	1969
M. G. Andrews	1970-75
J. J. Stiglich Jr.	1976-79
S. C. Weaver	1980-82
Michael Bale	1983-2001
Hemant Shah	2002-present

### C26.04 Moderator Materials

Ray Cooperstein	1969
K. Koyama	1970-73
Inactive	1974
Disbanded	1988

Dale Wahlquist  
2010-15

Donna Beals  
2010-2015

Bertrand Morel  
2010-15

Shane Robinson  
2014

Jürgen Agreiter  
2014-17

### C26.05 Methods of Test

L. T. Corbin	1969-75
W. R. Laing	1976-88
R. W. Morrow	1989-99
Wanda Mitchell	2000-05
Norbert Golchert	2006-12
Randy Blevins	2012-13
Mike Brisson	2014-present

### C26.06 Statistical Applications

J. A. Merrill	1975-80
J. A. Lechner	1981-82
M. W. Hume	1983-96
Larry Bruckner	1997-2000
Combined with C26.08	2001

### C26.07 Waste Materials

Thomas Keenan	1980-81
R. W. Chickering	1982
W. P. Reed	1983-85
Richard Blauvelt	1986-2016
Combined with C26.13	2016

### C26.08 Quality Assurance Applications/Reference Material

M. H. Campbell	1980-84
Don Sandburg	1985-90
Clarence Homi	1991-96
Susan Flint	1997-98
Don Sandburg	1999-2000
Bill Palmer	2001
Michael Soriano	2002-08
Donivan Porterfield	2009-11
Mike Brisson	2011-15
Ben Karmiol	2015

Hemant Shah  
2016

Maarten Van Wijnkoop  
2016

Kirill Novokshonov  
2016

Kahlil Abbas Ghaleb  
2018

### C26.09 Nuclear Processing

R. E. Brooksbank	1980-87
Ken Plummer	1988-97
Frank Graham	1998
Tracy Rudisill	1999-present

### C26.10 Non-Destructive Assay

David McCue	1980-85
Inactive	1986-87
Ralph Gutmacher	1988
Francis Haas	1989-93
John Fleissner	1994-2003
David Bracken	2004-08
Ram Venkataraman	2009-present

### C26.11 Reprocessing

J. M. Scarborough	1983-85
Wayne Delvin	1986-93
Susan Flint	1994-96
Inactive	1997
Disbanded	1999

### C26.12 Safeguards

Ray Cooperstein	1969
K. Koyama	1970-73
Inactive	1974
Disbanded	1988

### C26.13 Spent Fuel and High-level Waste

R. G. Spaunburgh	1984
A. S. Jennings	1985
Tom Thornton	1986-1988
C. H. Peterson	1989
Pedro Macedo	1990-1995
Ned Bibler	1996
Gary L. Smith	1997-present

### C26.14 Remote Systems

Dale Wahlquist	2000-18
Andrew Hsu	2018-present

### C26.91 Long-Range Planning

S. C. Weaver	1984-87
Milton Campbell	1988-94
Richard Blauvelt	1995-2013
Donna Beals	2014-16
Mike Brisson	2016-present

## Member Awards

ASTM has established a set of awards to recognize members for their accomplishments. These awards are presented to members, typically at one of the semi-annual meetings, after nomination by their peers. These awards are:

### Award of Merit

The Award of Merit was established in 1949 by the ASTM International Board of Directors and is the highest society award granted to an individual member for distinguished service and outstanding participation in ASTM International committee activities. Recipients also receive the honorary title of Fellow.

### Harlan J. Anderson Award

This award, established in 1978, honors Harlan J. Anderson, a Fellow of the Society and the first Chairman of ASTM Committee C26. It is presented to a member of C26 who has made outstanding contributions toward the successful operation of the Committee for a number of years.

### Don Sandburg Award

This award, established in 2002, honors Donald Sandburg, a Fellow of the Society and the former Chairman of ASTM Committee C26. It is presented to a former Chairman of C26 who has made outstanding contributions toward the successful operation of the Committee for a number of years.

### Achievement Award

This award, established in 1978, is provided in recognition of outstanding service to the committee or subcommittee or contribution to the development of a standard or group of standards.

### Appreciation Award

This award, re-established in 2010, is provided in recognition of outstanding service to the committee or subcommittee for significant participation that promotes C26 such as organizing workshops, seminars, and other supporting activities.

The following is listings of C26 members who have received one or more of the above awards.

## Award of Merit

Harlan Anderson 1976	Lawrence Corbin 1974	Charles Interrante 2000	Gary L. Smith 2001
Michael Bale 1991	Wayne Delvin 1989	Gerald Klip 1986	Thomas Thornton 1995
Donna Beals 2011	Reed Durham 1999	William Laing 1982	Nancy Trahney 1987
Carleton Bingham 1979	Paul Fehlau 2004	Wanda Mitchell 2002	Glenn Waterbury 1981
Richard Blauvelt 1996	John Fleissner 2003	Bertrand Morel 2015	Samuel Weaver 1983
Lawrence Bruckner 1998	Ann Gibbs 1992	Roy Morrow 1994	
Milton Campbell 1985	Norbert Golchert 1997	Donivan Porterfield 2013	
Robert Carpenter 1984	Merrill Hume 1990	Donald Sandberg 1993	

## Award of Appreciation

Jurgen Agreiter 2018	Brian Hempy 2016	Shane Robinson 2011
R. Matthew Asmussen 2018	Michael Holland 2014	2016
Peter Barth 2018	Douglas Hoxworth 2018	Joseph Ryan 2014
Michael Brisson 2014	Ron Jeffcoat 2012	Thomas Sampson 2014
John Bystrom 1977	Markku Koskelo 2012	Donald Sandberg 1987
Lawrence Corbin 1983	Joe Koury 2016	Sarah Saslow 2018
Stephen Croft 2012	R. Stephen Lee 2012	James Sprinkle 2011
2014	Matt Lief 1987	Ralph Starks 1987
Martin Edelson 1986	Peter Mason 2011	Ramkurnar Venkataraman 2011
Carl Enderlin 2018	Kevin McCoy 2016	Dale Wahlquist 2014
Spencer Feuerstein 2016	Bertrand Morel 2014	2015
Stephane Gin 2014	Kathie Morgan (Schaaf) 1991	Jeff Wilks 2016
Norbert Golchert 2012	James Neeway 2018	Emma Wong 2016
Brady Hanson 2014	Wilson Noel 2012	
2015		
Frank Heckendorn 2014	Brian Riley 2018	
2015		

## Harlan J. Anderson Award

Michael Bale 1985	Rodney Hand 1993	James Sprinkle 2001
Donna Beals 2007	Thomas Hayes 1988	Joseph Stewart 1981
Richard Blauvelt 1991	Merrill Hume 1987	Thomas Thornton 1992
Michael Brisson 2014	John Kerr 1981	Nancy Trahney 1997
Lawrence Bruckner 1995	Gerald Klip 1984	Maarten Van Wijnkoop 2015
Milton Campbell 1982	Joe Koury 2015	Pamela Vasquez (Howell) 2000
Danielle Cangiano 1998	R. Stephen Lee 2003	Catherine Veyer 2004
Robert Carpenter 1983	Frend Miner 1978	Dale Wahlquist 2009
Lawrence Corbin 1981	Wanda Mitchell 1998	Glenn Waterbury 1981
Joel Dahlby 1995	Bertrand Morel 2011	
Wayne Delvin 1986	Roy Morrow 1992	
Reed Durham 1996	William Pardue 1980	
Paul Fehlau 1996	Ken Plumber 1994	
John Fleissner 1999	Donivan Porterfield 2010	
Sandra Fratiali 1991	John Renouf 2002	
Nathan Fuhrman 1990	Raymond Rutitis 2016	
Allen Gethin 1997	Donald Sandberg 1989	
Ann Gibbs 1998	Alain Sarda 1990	
Norbert Golchert 1993	Hemant Shah 2012	
Ralph Gutmacher 1989	Gary L. Smith 2000	
Francis Haas 1994	Richard Spaunberg 1979	

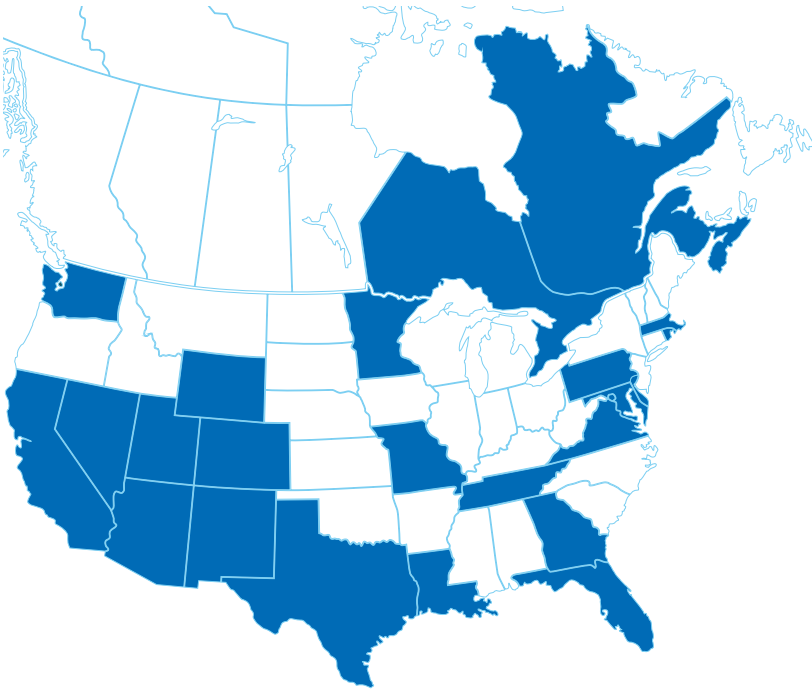
## Award of Achievement

John Abrefah 2008	Lawrence Bruckner 1988	Allan Frymire 2000
Larry Addington 1996	Danielle Cangiano 1995	Allen Gethin 1995
Tony Aldridge 2000	Rodolph Chomel 2018	Joe Giaquinto 2018
Deborah Andrews 1999	Paul Cloessner 1994	Norbert Golchert 1988
Michael Bale 1978	Louis Cox 1985	Joe Goleb 1990
Peter Barth 2011	Jeff Crain 1998	Chris Grassiot 2000
Robert Baschwitz 2000	Joel Dahlby 1990	Jeffrey Gross 2001
John Bates 1993	Kim Davies 2011	Ralph Gutmacher 1987
Donna Beals 2000	Wayne Delvin 1980	Francis Haas 1991
George Belev 2008	Mark Dubecky 2001	Richard Hagenauer 2010
Richard Blauvelt 2009	Reed Durham 1993	Richard Hamilton 1992
Charles Blevins 2004 2011	William Ebert 2001 2008	Rodney Hand 1990
Robert Bolin 1999	2011 Martin Edelson 1991	Frank Heckendorn 2007
Delbert Bowers 1996 2016	Norbert Ensslin 2004	Rob Henry 1997
William Bracey 2007	Robert Faron 1988	James Hobbs 2007
David Bracken 2009	Paul Fehlau 1989	William Hogg 1984
Jim Bradbury 1989	Michael Fern 2004	Clarence Homi 1990
Michael Brisson 2011 2012 2018	Isabel Fisenne 1994	Mark Hollenbach 1998
Robert Brooksbank 1983	John Fleissner 1992	Charles Interrante 1999 2003
Christoph Brown 2007	Susan Flint 1997	Carol Jantzen 1993
W. B. Brown 1981	Christoph Forsey 1992	Chuck Kalkwarf 2003
	Matthew Fountain 2012	Ben Karmioli 2016
	Peter French 1981	Ralph Kent 1986



Edward Kuhn 2005	Robert Pollard 1993	Don Temer 1995
Dean Kurath 2012	Donivan Porterfield 2003	H. G. Tepp 1983
William Laing 1978	Jonathan Quartly 2007	Richard Thomason 2003
Marilyn Law 1997	John Renouf 1998	Thomas Thornton 1985
R. Stephen Lee 1995	Stephan Richter 2018	1989
John Limpert 1981	Bill Riedeman 1991	2008
Lawrence Macklin 1986	Brian Riley 2011	2011
Mick Marlowe 1987	Tracy Rudisill 2001	Joel Tingey 2011
1990	Raymond Rutitis 2003	2012
Christophe Mathonat 2016	2011	Nancy Trahney 1979
Richard Mayer 2003	Alexander Saprygin 2012	Maarten Van Wijnkoop 2009
2016	Tsutomu Sato 1996	Koen Vanaken 2009
John McGowan 1992	Efrern Schwartz 2003	Pamela Vasquez (Howell) 1996
Dan Merz 1988	Eric Shaber 2008	Catherine Veyer 2000
Wanda Mitchell 1993	Hemant Shah 2001	John Vienna 2011
Bertrand Morel 2000	Steven Shaw 2018	Ollie Vita 1990
Evan Morgan 1981	Gary L. Smith 1998	Dale Wahlquist 2003
Roy Morrow 1989	Michael Soriano 2002	Clyde Ward 2002
Scott Nagley 2004	Irene Spaletto 2001	Joseph Watcher 2002
William Palmer 2002	James Sprinkle 1993	Samuel Weaver 1981
Mikael Pellfolk 2002	Carl Sutter 1991	George Westalk 2000
Charles Pepper 1981	D. Swaney 1989	Jeff Wilks 2014
Ken Plumber 1992	Roy Swank 1994	Walt Wolf 1995

## Meeting Locations



### Arizona

Phoenix - 1995, 2006

### Austria

Vienna - 2016

### California

Anaheim - 2007, 2011, 2015  
 Palo Alto - 1987  
 San Diego - 1970, 1973,  
 1979, 1984, 1991, 1998,  
 2012, 2018  
 San Francisco - 1972, 1994

### Colorado

Boulder - 1971  
 Colorado Springs - 1977,  
 1984, 1991, 2003  
 Denver - 1980, 1995, 2003,  
 2008

### Florida

Fort Lauderdale - 1971,  
 1973, 1978  
 Fort Meyers - 1976, 1981  
 Jacksonville - 2013  
 Lake Buena Vista - 1983  
 Orlando - 1989  
 Tampa - 1987, 2004, 2008

### France

Avingon - 2013

### Georgia

Atlanta - 1996, 2005,  
 2009, 2012

### Louisiana

New Orleans - 1969, 1972,  
 1974, 1980, 1986, 1992,  
 1997, 2000, 2015, 2018

### Maryland

Baltimore - 1996, 2011

### Massachusetts

Boston - 1985  
 Falmouth - 1974

### Minnesota

Minneapolis - 1979

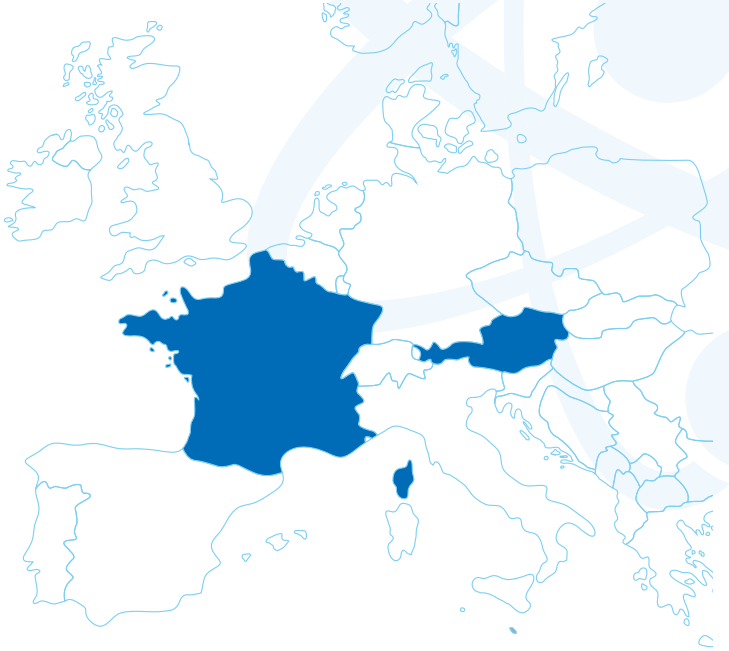
### Missouri

Kansas City - 2004  
 St. Louis - 2010

### Nevada

Las Vegas - 1975, 1990,  
 2000  
 Reno - 1981, 1985, 1998,  
 2001, 2005

In an effort to expand the international reach of C26, it was agreed in 2011 to begin having meetings outside of North America approximately once every three years. The first of these was held in Avignon, France, in June 2013. A second international meeting was held in Vienna, Austria, in June 2016. These meetings have improved the international exposure and membership of C26.



**New Mexico**

Albuquerque - 1988, 2003  
 Santa Fe - 1994

**Ontario**

Toronto - 1988, 1993

**Pennsylvania**

Philadelphia - 1968  
 West Conshohocken - 2017

**Quebec**

Montreal - 1975  
 Quebec City - 1983

**Rhode Island**

Newport - 1978

**Tennessee**

Gatlinburg - 1970  
 Knoxville - 1982  
 Memphis - 1999  
 Oak Ridge - 2009

**Texas**

Dallas - 2002  
 Houston - 1977, 1982, 2014, 2019  
 San Antonio - 1993, 2006, 2010, 2016

**Virginia**

Arlington - 1997  
 Norfolk - 2001, 2007, 2017  
 Williamsburg - 1990

**Utah**

Salt Lake City - 2002

**Washington**

Seattle - 1976, 1986, 1999  
 Tacoma - 1992

**Washington, D.C.** - 1968, 1989

**Wyoming**

Jackson Hole - 2014

## ASTM INTERNATIONAL

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Over 12,000 ASTM standards operate globally. Defined and set by us, they improve the lives of millions every day.

Combined with our innovative business services, they enhance performance and help everyone have confidence in the things they buy and use – from the toy in a child's hand to the aircraft overhead.

Working across borders, disciplines and industries we harness the expertise of over 30,000 members to create consensus and improve performance in manufacturing and materials, products and processes, systems and services.

Understanding commercial needs and consumer priorities, we touch every part of everyday life: helping our world work better.

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