

National BIM Standard - United States™ Version 2

ACKNOWLEDGEMENTS

NBIMS-US™ V2 Volunteers

This standard would not be possible without the commitment of the volunteers listed below. They developed the content, evaluated it, provided comments, resolved the comments, and represented the entire facilities industry in reaching consensus on the best way to move the industry forward. Consider part of this leadership group on a future version of the National BIM Standard.

NBIMS-US™ V2 Ballot Authors' Biography

Chimay Anumba

Chimay Anumba is a Professor and Head of the Architectural Engineering Department at the Pennsylvania State University. Dr. Anumba specializes in the implementation of information technology research related to design, construction, and operations.

R. Mark Butler

Mr. Butler is looked on nationally inside and outside of HDR and for HDR clients as an expert on the subject of Building Information Modeling (BIM). Mark strives to insure that HDR and the industry have a comprehensive understanding and experience with BIM. Mark has been with HDR since 1981, serving in varied production and technology roles at local office and national levels.

Mark works nationally with several Industry groups investigating BIM as well as with academic institutions, presenting BIM information to these and other groups. He represents HDR as an active participant in the Industry Standards work sponsored by the National Institute of Building Sciences (NIBS). This includes the National CAD Standard (NCS), the National BIM Standard (NBIMS-US) and the buildingSMART Alliance.

Lars Bjørkhaug

Lars Bjørkhaug is the product manager at Catenda AS. Catenda develops on-line tools to simplify the use of buildingSMART standards in projects. He has long experience from the construction industry, from practical work as a carpenter, later civil engineer, researcher and senior researcher at SINTEF Byggforsk. At SINTEF, his area of research was building process, information technology and later buildingSMART. He has led several research and development projects under the buildingSMART umbrella. He has been heavily involved in the development of the IFC, IFD and IDM standards as well as other international

standards since 1999. Lars is a Civil Engineer from Bergen Engineering University, and MSc from NTNU and Universidade do Porto in Portugal.

Greg Ceton

Greg Ceton has managed the development of Construction Specifications Institute's (CSI) information standards and publications since November 2000. He has been directly involved in the creation and maintenance of OmniClass™, MasterFormat®, UniFormat™, and the CSI Practice Guide series, among others, and has served as the director of CSI's technical publications department since July 2010.

Ceton's work has been recognized by awards from construction associations, among them a CSI President's Award and honorary membership in Construction Specifications Canada. He holds the Construction Documents Technologist (CDT) certificate and has a master's degree in library science from the University of Maryland, a law degree from the University of Florida, and has been a member of the Florida Bar since 1991. Ceton lives in the suburbs of Washington, DC.

Craig Dubler

Craig Dubler was a former graduate assistant and member of the CIC Research Group at Penn State. Upon completion of his Ph.D., Dr. Dubler transitioned to the Office of Physical Plant within Penn State as a Virtual Facilities Engineer and a course instructor for the Architectural Engineering Department. His specialties include the implementation of Building Information Modeling into facility operations and applying efficient information exchange procedures within an owner organization. Dr. Dubler is also the faculty advisor of the Design-Build Institute of America student chapter.

Bill East

Dr. Bill East, is Research Civil Engineer at the Engineer Research and Development Center, Construction Engineering Research Laboratory, Champaign, IL. Dr. East conducts research in design and construction quality management. Tools resulting from Dr. East's research currently support over fifty thousand worldwide stakeholders. With the goal of creating more efficient, and ultimately, automated means for quality management, Dr. East leads several projects, with the National Institute of Building Sciences, to develop national and international Building Information Modeling information exchange standards.

Dr. East has Civil Engineering degrees from Virginia Tech and University of Illinois at Urbana-Champaign. He is a Fellow of the American Society of Civil Engineers and the active participant in the International Council for Research and Innovation in Building and Construction. Dr. East was the recipient of the ASCE Public Civil Engineer of the Year award, Construction Specification Institute Innovation in Construction Information award, and the NIBS Member Award.

- Kristine K. Fallon** Kristine K. Fallon, President of Kristine Fallon Associates, Inc. (www.kfa-inc.com), is a member of the buildingSMART alliance Board of Direction and a Fellow of the American Institute of Architects. She has been a pioneer in applying information technology to design, construction and facility management since the 1970's and a participant in the development of multiple industry standards. The firm, which she founded in 1993, provides IT consulting services, with specialization in BIM and project collaboration and management technologies. The firm's clients are primarily are owners with large capital programs. Kristine K. Fallon, President of Kristine Fallon Associates, Inc. (www.kfa-inc.com), is a member of the buildingSMART alliance Board of Direction and a Fellow of the American Institute of Architects. She has been a pioneer in applying information technology to design, construction and facility management since the 1970's and a participant in the development of multiple industry standards. The firm, which she founded in 1993, provides IT consulting services, with specialization in BIM and project collaboration and management technologies. The firm's clients are primarily are owners with large capital programs.
- Shane Goodman** Shane Goodman is a BIM Engineer and Project Engineer at DPR Construction, working to implement new technology and BIM on a project level. Shane is also a certified teacher in the Associated General Contractors of America's (AGC) BIM 101 Education Program. He is a graduate of The Pennsylvania State University, where he was a former graduate research assistant to the CIC Research Group.
- Colleen Kasprzak** Colleen Kasprzak is the BIM Implementation Strategist of Design Services for the Office of Physical Plant at The Pennsylvania State University, as well as a member of the Computer Integrated Construction Research Program. Her focus is on the development and implementation of appropriate BIM strategies and standards for the university, as well as integrating BIM information exchange procedures into Penn State's existing facility management system.
- Ralph Kreider** Ralph Kreider is a Doctoral Candidate in Architectural Engineering at the Pennsylvania State University. As a part of the Computer Integrated Construction Research Program, his research focuses on BIM Planning. His dissertation is focused on developing an ontology of BIM Uses (the methods of implementing BIM). In addition to the BIM Project Execution Planning Guide, he is also a major contributor on the BIM Planning Guide for Facility Owners.
- Robert M. Leicht** Robert M. Leicht is a faculty member and graduate of the Department of Architectural Engineering at Penn State University. Before returning to Penn State, Robert served as the Virtual Building Operations Manager for DPR Construction's East Coast projects and offices. In this role Robert dedicated much of his time to the process of integrating design, construction, and owner's efforts using BIM Platforms.

- Deborah L. Macpherson** Deborah L. Macpherson works in Specifications and Research for Cannon Design; she is also a Certified Construction Specifier (CCS) with the Construction Specification Institute (CSI) and President of the Northern Virginia Chapter. Deborah serves on the OmniClass Development Committee, including the Properties, and Facility and Space Types Working Groups; the National Building Information Modeling Standard (NBIMS) Planning Committee and Technical Subcommittee; the National Information Exchange Model (NIEM) Business Architecture Committee (NBAC); Projects Director for the 5013c nonprofit organization Accuracy & Aesthetics; and the Advisory Board for Places & Spaces, Mapping Science.
- Tammy McCuen** Tammy McCuen is an Assistant Professor of Construction Science at the University of Oklahoma. Her research and teaching focus is 1) BIM and the information exchange between members of integrated teams and 2) BIM as a tool to improve spatial skills for complex problem solving in the AEC industry. Tammy is the Workgroup leader for the "Quantification Process and Standards for Cost Estimating in BIM", a collaboration between the Association for the Advancement of Cost Engineering International (AACE-I), American Society of Professional Estimators (ASPE), and the Royal Institute of Chartered Surveyors (RICS). Tammy is a member of the building SMART alliance Board of Direction, NBIMS Project Committee, and AACE-I National BIM Committee Chair.
- John Messner** John Messner is an Associate Professor at The Pennsylvania State University and the Director of the Computer Integrated Construction Research Program. Dr. Messner specializes in research related to the implementation of Building Information Modeling into the industry as well as information visualization approaches to improve decision-making on projects. He also leads the design tools task area at the Energy Efficient Building Hub, a Department of Energy Innovation Hub.
- David Morris** (pending)
- Mark E. Palmer** Mark E. Palmer is the leader of the Process Engineering Group of the Systems Integration Division of the Engineering Laboratory at the National Institute of Standards and Technology (NIST). Mr. Palmer conducts research on measurement science for advancing the integration of information, communication, sensing and automation technologies and work process optimization to improve engineering, manufacturing, and construction. Mr. Palmer is active in national and international standards development activities and numerous industry organizations. Mr. Palmer has led numerous national and international research projects on interdisciplinary collaboration, information modeling, interoperability, systems engineering and cross-industry, data exchange standards and web standards. Prior to joining NIST, Mr. Palmer spent 14 years in the engineering and construction of commercial, industrial, and residential facilities. He received his Bachelor of Architecture degree from the University of Oregon. His Master of Science degree is from the

Massachusetts Institute of Technology where he specialized in the integration of CAD/CAE systems, knowledge systems, and quality management principles.

Chitwan Saluja

Chitwan Saluja is a Design Application Technician at Perkins+Will. She possesses over 5 years of experience in the Architecture and Information Technologies fields, specializing in Building Information Modeling. Her day-to-day activities include successful implementation, collaboration, and support revolving around BIM Technologies. She has a Bachelor in Architecture from Indian Institute of Technology and a Master's in Architectural Engineering from The Pennsylvania State University. She was also a former member of the Computer Integrated Construction (CIC) Research Program and a graduate research assistant at Penn State.

Richard See

Richard See is a licensed Architect in Washington State and practiced architecture in some of the leading design firms in the Pacific Northwest.

During the 1980's and 1990's, Richard was a pioneer in the development of BIM concepts and products, and eventually led the development of the Industry Foundation Classes (IFC), the basis for BIM interoperability today. He also led the development of several products and technologies during his 14 year tenure at Autodesk, Visio, and Microsoft.

Currently, Richard leads Digital Alchemy, a BIM products, services, and consulting company working with several government agencies and industry leading design, construction, and building owner/property management organizations. He is also MVD Coordinator for buildingSMART International, Co-Chair of the Technical Committee for buildingSMART alliance, Chairman of the BLIS Consortium.

Patrick C. Suermann

Lieutenant Colonel Patrick C. Suermann, Ph.D., P.E., LEED AP is the Commander, 821st Support Squadron, 821st Air Base Group, Thule Air Base, Greenland. The 821 SPTS supports the full complement of Air Base support functions and consists of six flights: civil engineering, logistics, airfield operations, communications, medical, and personnel/services. Lt Col Suermann is a registered PE in the state of Colorado and received his PhD in 2009 from the University of Florida. At the culmination of his command tour, Lt Col Suermann will return to teach at the Air Force Academy in July 2012 in the Department of Civil and Environmental Engineering.

Nevena Zikic

Nevena Zikic is a Project Engineer working for the General Contractor in San Francisco, CA. Ms. Zikic specializes in MEP coordination, Commissioning, Building Information Modeling, 3D Spatial Coordination, 4D Schedule Simulation, Design Build and Green Buildings. She is a former Graduate Research Assistant and member of the CIC Research Group at Penn State.

NBIMS-US™ V2 Planning Committee (PLC) and Staff

Name	Organization	Role
Morris, David	Morris, David	Chair
Partridge, Allan	Canadian BIM Council	Secretary
Anderson, Robert	Nemetschek Vectorworks	Member
Butler, R. Mark	Butler, R. Mark	Member
Butler, Shawn	Butler, Shawn	Member
Ceton, Greg	Construction Specifications Institute	Member
Cramer, Mathew	Sheet Metal & Air-Conditioning Contractors National Association	Member
Curtis, Clyne	Curtis, Clyne S.	Member
Davis, Adam	Davis, Adam	Member
Davis, Dianne	Davis, Dianne	Member
Dossick, Carrie	Dossick, Carrie Sturts	Member
East, Bill	U.S. Army Corps of Engineers, Engineering and Construction	Member
Gay, Thomas	FM Global	Member
Hecht, Louis	Hecht, Louis	Member
Jernigan, Finith	Jernigan, Finith	Member
Jordani, David	Jordani, Dave	Member
Kam, Calvin	General Services Administration	Member
Mack, Melcher	Mack, Melcher	Member
MacPherson, Deborah	MacPherson, Deborah	Member
McCuen, Tammy	McCuen, Tammy	Member
Messner, John	Messner, John I.	Member
Moor, Chris	AISC	Member
Moy, Get	Moy, Get	Member
Omansky, Adam	Omansky, Adam	Member
Reece, Jason	Balfour Beatty Construction	Member
Reis, Jim	Technical Sales International	Member
Schleusner, Greg	HOK	Member
See, Richard A.	See, Richard	Member
Smith, Andy	Bentley Systems, Inc.	Member
Soles, Tom	Sheet Metal & Air-Conditioning Contractors National Association	Member
Vandezande, James	HOK	Member
Fernandez, Dominique	National Institute of Building Sciences	Staff
Smith, Deke	National Institute of Building Sciences	Staff

NBIMS-US™ V2 Project Committee (PC)

Name	Organization	Role
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Ashcraft, Howard	Ashcraft, Howard	Member
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Barry, Patrick	Barry, Patrick	Member
Basu, Abhimanyu	Basu, Abhimanyu	Member
Bates, Richard	Bates, Dick	Member
Bell, Robert	Bell, Robert	Member
Bender, John	UL LLC	Member
Blanchard, Paul	Blanchard, Paul	Member
Bona, Philip	Bona, Philip	Member
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Bradford, Robert	Bradford, Robert	Member
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Butler, Shawn	Butler, Shawn	Member
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Carter, Rich	Carter, Rich	Member
Ceton, Greg	Construction Specifications Institute	Member
Chapin, Monte	Graphisoft	Member
Chiple, Michael	Chiple, Michael	Member
Chipman, Tim	Chipman, Tim	Member
Cholakis, Peter	Cholakis, Peter	Member
Clark, Peter	Clark, Peter	Member
Cousins, Phillip	Cousins, Phillip	Member
Cramer, Mathew	Sheet Metal & Air-Conditioning Contractors National Association	Member
Curtis, Clyne	Curtis, Clyne S.	Member

Darnell, Chris	American Concrete Institute	Member
Davis, Adam	Davis, Adam	Member
Davis, Dianne	Davis, Dianne	Member
Davis, Patrick	Davis, Patrick	Member
Demler, Adam	Demler, Adam	Member
Dossick, Carrie	Dossick, Carrie Sturts	Member
East, Bill	U.S. Army Corps of Engineers, Engineering and Construction	Member
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Fallon, Kristine	Kristine Fallon Associates, Inc.	Member
Fard, Babak	Fard, Babak J.	Member
Garrett, Brandon	Garrett, Brandon	Member
Gay, Thomas	FM Global	Member
Glover, Robert Androse	Glover, Robert	Member
Gravatte, Jeff	Gravatte, Jeff	Member
Hagan, Stephen	Hagan, Stephen	Member
Hale, Greg	Hale, Greg	Member
Hall, Dennis	Construction Specifications Institute	Member
Hanna, Sam	Hanna, Sam	Member
Harris, Joe	Harris, Joe	Member
Hecht, Louis	Hecht, Louis	Member
Hedges, Keith	Hedges, Keith E.	Member
Henderson, Lamar	Henderson, Lamar	Member
Herbere, Frederic	Herbere, Frederic	Member
Hermendorfer, Greg	Hermendorfer, Greg	Member
Hill, Gerald	Hill, Gerald	Member
Holzer, Stephen	Holzer, Stephen	Member
Houhou, Kal	Houhou, Kal	Member
Humphrey, Douglas	Humphrey, Douglas	Member
Jackman, Stacy	Jackman, Stacy	Member
Jernigan, Finith	Jernigan, Finith	Member
Johnson, Karie	Johnson, Karie L.	Member
Jordani, David	Jordani, Dave	Member
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Keenlside, Susan	Keenlside, Susan	Member
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Kistler, Rob	Kistler, Rob	Member
Kramer, Nicholas	Kramer, Nicholas	Member
Kwan, OhSung	Kwan, OhSung	Member
LeFevre, Michael	LeFevre, Michael	Member
Leicht, Robert	Leicht, Robert M.	Member

Levasseur, Janis Phelps	Levasseur, Janis Phelps	Member
Lewis, Jim	Lewis, Jim	Member
Lewis, Thomas	Assa Abloy Door Security Solutions	Member
Lighthart, Brian	Lighthart, Brian	Member
Lord, John	Component Assembly Systems	Member
Lowe, Ed	Lowe, Ed	Member
Mack, Melcher	Mack, Melcher	Member
Mackenzie, Pete	Mackenzie, Pete	Member
MacPherson, Deborah	MacPherson, Deborah	Member
Madison, Bradley	Madison, Bradley	Member
Maing, Minjung	Maing, Minjung	Member
McCartney, Sean	McCartney, Sean	Member
McCuen, Tammy	McCuen, Tammy	Member
McKinley, Grant	McKinley, Grant	Member
McLucas, John	McLucas, John	Member
Medina, Mario	Medina, Mario	Member
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Miller, Jay	Miller, Jay	Member
Miller, Lee	HOK	Member
Miller, Matthew	Miller, Matthew - Navigant	Member
Miller, Sean	Miller, Sean	Member
Mislan, Ryan	Mislan, Ryan	Member
Moor, Chris	AISC	Member
Morrey, Richard	Accela, Inc.	Member
Moy, Get	Moy, Get	Member
Mueller, Volker	Mueller, Volker	Member
Napier, William	Wisconsin Department of Administration	Member
Nawari, Nawari	Nawari, Nawari O.	Member
Nisbet, Nicholas	Nisbet, Nicholas	Member
Omansky, Adam	Omansky, Adam	Member
Onuma, Kimon	Onuma, Inc.	Member
Park, Youngchoon	Park, Youngchoon	Member
Partridge, Allan	Canadian BIM Council	Member
Peterson, Judd	Peterson, Judd	Member
Porter, Rachelle	Porter, Rachelle	Member
Przybyla, John	Przybyla, John	Member
Ransom, Calvin	Ransom, Calvin	Member
Redmond, Alan	Redmond, Alan	Member
Reece, Jason	Balfour Beatty Construction	Member
Reinke, Lauren	Reinke, Lauren	Member
Reis, Jim	Technical Sales International	Member

Riopel Wiley, Rachel	Riopel Wiley, Rachel	Member
Rosenbloom, Scott	Rosenbloom, Scott	Member
Russell, Brian	Russell, Brian S.	Member
Schleusner, Greg	HOK	Member
See, Richard A.	See, Richard	Member
Settlemyre, Kevin	Settlemyre, Kevin	Member
Shelden, Dennis	Gehry Technologies	Member
Simmons, Scott	Simmons, Scott	Member
Smith, Andy	Bentley Systems, Inc.	Member
Smith, Bob	Smith, Bob	Member
Smith, Jesse	Smith, Jesse	Member
Soles, Tom	Sheet Metal & Air-Conditioning Contractors National Association	Member
Spangler, Stephen	U.S. Army Corps of Engineers, Engineering and Construction	Member
Spartz, Jamie	Spartz, Jamie L.	Member
Starkov, Igor	Starkov, Igor	Member
Stewart, R.K.	Stewart, R.K.	Member
Storey, Jennifer	Storey, Jennifer	Member
Taylor, Simon	Taylor, Simon (Questant)	Member
Thomson, Stephen	Thomson, Stephen	Member
Tietjen, Renee	U.S. Department of Veterans Affairs	Member
Vaia, Jason	Vaia, Jason	Member
Valente, Josephine	Valente, Josephine	Member
Vandezande, James	HOK	Member
Wallis, Charles	Wallis, Charles	Member
Wang, Xin	Wang, Xin	Member
Ways, David	Ways, David	Member
Weidman, Allen	Weidman, Allen	Member
Whitehead, James	Whitehead, James	Member
Whitmer, Steve	Whitmer, Steve	Member
Wong, Irina	Wong, Irina	Member
Wood, Scott	HOK	Member
Wu, Wei	Wu, Wei	Member
Yee, Peggy Ho	General Services Administration	Member
Young, Darren	Southland Industries	Member
<i>International Reviewers on the Project Committee</i>		
Fernandez, Leonel	Fernandez, Leonel	Reviewer
Friborg, Bunnar	Friborg, Gunnar	Reviewer
Karlshoj, Jan	Karlshoj, Jan	Reviewer
Kobberoe, Inge	Kobberoe, Inge	Reviewer
Kulusjärvi, Heikki	Kulusjärvi, Heikki	Reviewer

Sunesen, Steen

Sunesen, Steen

Reviewer

NBIMS-US™ V2 Implementation Subcommittee (SC4)

Name	Organization	Role
Butler, R. Mark	Butler, R. Mark	Chair
Morris, David	Morris, David	Vice Chair
Davis, Dianne	Davis, Dianne	Member
Dossick, Carrie	Dossick, Carrie Sturts	Member
Hecht, Louis	Hecht, Louis	Member
Henderson, Lamar	Henderson, Lamar	Member
Mack, Melcher	Mack, Melcher	Member
Maing, Minjung	Maing, Minjung	Member
Schleusner, Greg	HOK	Member
Smith, Andy	Bentley Systems, Inc.	Member
Smith, Bob	Smith, Bob	Member

NBIMS-US™ V2 Technical Subcommittee (SC3)

Name	Organization	Role
Messner, John	Messner, John	Co-Chair
See, Richard A.	See, Richard	Co-Chair
Partridge, Allan	Canadian BIM Council	Secretary
Anderson, Robert	Nemetschek Vectorworks	Member
Davis, Dianne	Davis Dianne	Member
Dossick, Carrie	Dossick, Carrie Sturts	Member
East, Bill	U.S. Army Corps of Engineers, Engineering and Construction	Member
Hecht, Louis	Hecht, Louis	Member
MacPherson, Deborah	MacPherson, Deborah	Member
Onuma, Kimon	Onuma, Inc.	Member
Schleusner, Greg	HOK	Member

NBIMS-US™ V2 Workgroup 1 – Design (WGD)

Name	Organization	Role
Vandezande, James	HOK	Chair
Rosenbloom, Scott	Rosenbloom, Scott	Vice Chair
Anderson, Robert	Nemetschek Vectorworks	Member
Chapin, Monte	Graphisoft	Member
Hedges, Keith	Hedges, Keith E.	Member
Mueller, Volker	Mueller, Volker	Member

Nawari, Nawari	Nawari, Nawari O.	Member
Russell, Brian	Russell, Brian S.	Member
Spangler, Stephen	U.S. Army Corps of Engineers, Engineering and Construction	Member

NBIMS-US™ V2 Workgroup 2 – Procure (WGP)

Name	Organization	Role
Ashcraft, Howard	Ashcraft, Howard	Chair
Keenlside, Susan	Keenlside, Susan	Member
Thomson, Stephen	Thomson, Stephen	Member

NBIMS-US™ V2 Workgroup 3 – Assemble (WGA)

Name	Organization	Role
Soles, Tom	Sheet Metal & Air-Conditioning Contractors National Association	Chair
Chipman, Tim	Chipman, Tim	Member
Clark, Peter	Clark, Peter	Member
Moor, Chris	AISC	Member
Morris, David	Morris, David	Member
Omansky, Adam	Omansky, Adam	Member
Partridge, Allan	Canadian BIM Council	Member
Spartz, Jamie	Spartz, Jamie L.	Member
Young, Darren	Southland Industries	Member

NBIMS-US™ V2 Workgroup 4 – Operate (WGO)

Name	Organization	Role
Jernigan, Finith	Jernigan, Finith	Chair
Chiple, Michael	Chiple, Michael	Member
Fallon, Kristine	Kristine Fallon Associates, Inc.	Member
Przybyla, John	Przybyla, John	Member
Reece, Jason	Balfour Beatty Construction	Member
Starkov, Igor	Starkov, Igor	Member
Yee, Peggy Ho	General Services Administration	Member

NBIMS-US™ V2 Ad-Hoc Workgroup – Style (WGAHS)

Name	Organization	Role
Henderson, Lamar	Henderson, Lamar	Chair
Butler, R. Mark	Butler, R. Mark	Member
Demler, Adam	Demler, Adam	Member

Maing, Minjung
Smith, Bob

Maing, Minjung
Smith, Bob

Member
Member