

Curriculum Vitae

John F. Quinn

Present Position: Professor of History,
Salve Regina University, Newport, RI

Education

Ph. D. University of Notre Dame, History, 1992
M.A., University of Notre Dame, History, 1988
A.B., Georgetown University, magna cum laude, 1986

Publications

Books:

The Rise of Newport's Catholics: From Colonial Outcasts to Gilded Age Leaders (Amherst: University of Massachusetts Press, 2024).

Father Mathew's Crusade: Temperance in Nineteenth Century Ireland and Irish-America (Amherst: University of Massachusetts Press, 2002).

Articles:

"American Reaction to Pope Gregory XVI's Condemnation of the Slave Trade," in David Endres, ed., Slavery and the Catholic Church in America: Historical Studies (Catholic University of America Press, 2023).

"We Were All Prejudiced More or Less Against Him": The American Bishops' Response to Father Mathew's Temperance Tour, 1849-1851," Catholic Historical Review 106 (Summer 2020): 421-452.

The New Romanists: **America's** Changing View of Papal Authority," Fellowship of Catholic Scholars Quarterly 41 (Summer 2018): 197-207.

"From Dangerous Threat to 'Illustrious Ally': Changing Perceptions of Catholics in Eighteenth Century Newport," Rhode Island History 75 (Summer/Fall 2017): 56-79.

"Irish Influence in Gilded Age Newport," in Peter Benes, ed., The Irish in New England (Concord, MA: The Dublin Seminar for New England Folklife, 2016), 42-53.

"Jilted: Parnell and the American Heiress," History-Ireland 23 (January-February 2015): 26-28.

"We Hold These Truths at Fifty: John Courtney Murray's Contested Legacy," in American Catholic Studies 122 (Fall 2011): 31-51.

"Where Religious Freedom Runs in the Streams': Catholic Expansion in Newport, 1780-1855," Newport History 80 (Spring 2011): 1-29.

"Expecting the Impossible?: Abolitionist Appeals to the Irish in Antebellum America," New England Quarterly 82 (December 2009): 667-710.

"The New Underground Railroad and the Old: Abolitionists' Perspectives on Abortion," Human Life Review 33 (Fall 2007): 46-53.

"The Rise and Fall of Repeal: Slavery and Irish Nationalism in Antebellum Philadelphia," Pennsylvania Magazine of History and Biography 130(January 2006): 35-68.

"'The Nation's Guest?': The Struggle between Catholics and Abolitionists to Control Father Mathew's American Tour, 1849-1851," U.S. Catholic Historian 24 (Summer 2004): 19-40.

"'Three Cheers for the Abolitionist Pope!': American Reaction to Gregory XVI's Condemnation of the Slave Trade, 1840-1860," Catholic Historical Review 90 (January 2004): 67-93.

"'Safe in Old Ireland': Frederick Douglass' Tour, 1845-1846," The Historian 65 (Spring/Summer 2002): 535-550.

"Daniel O'Connell's Spiritual Odyssey," Faith and Reason 26 (Spring 2001): 19-37.

"It's Fashionable Here To Be a Total Abstainer": Temperance Advocacy at the University of Notre Dame, 1870-1940," American Catholic Studies 110 (Spring-Winter 1999): 1-27.

"A Militant Churchman: John Hughes, First Archbishop of New York," Catholic Dossier 5 (September-October 1999): 22-25.

John Courtney Murray, S.J.: The Man JFK Didn't Understand," Crisis (October 1999): 32-37.

"Saints over Sacraments? Italian and Italian American Spiritual Traditions," in Joseph Varacalli et al., eds. The Saints in the Lives of Italian Americans (SUNY-Stonybrook, 1999), 93-106.

"The Neoconservative Catholics' Dramatic Change in Direction," New Oxford Review 65 (October 1998): 29-33.

"Father Mathew's Disciples: American Catholic Support for Temperance, 1840-1920," Church History 65 (December 1996): 624-640.

"'The Workers are Few': Priestly Vocations in America since 1789," Catholic Social Science Review 1

(1996): 125-135.

"Father Mathew's American Tour, 1849-1851," Éire-Ireland, 30 (Spring 1995): 91-104.

"'The Vagabond Friar': Father Mathew's Difficulties with the Irish Bishops, 1840-1856," Catholic Historical Review, 78 (October 1992): 542-556.

"Newman, Faber and the Oratorian Separation: A Reappraisal," Recusant History 20 (May 1990): 106-126.

Essays:

"The 60th Anniversary of JFK's Assassination," *Ocean State Stories Q and A*, November 20, 2023.

"Guy Fawkes Day in Colonial America," Crisis, November 5, 2015.

"Rose Hawthorne Lathrop's Ministry of Mercy," Crisis, July 14, 2014.

"Father Mathew's Newport Followers," Museum of Newport Irish History Newsletter 37 (Summer 2014): 6.

"The Ursuline Sisters and the 'Outrage at Charlestown,'" Crisis, August 12, 2013.

"Father John Bapst, S.J.: An Evangelist Among the Know Nothings," Crisis, June 3, 2013.

"The Good Doctor: Horatio Robinson Storer," Crisis, December 10, 2012.

"The Zeal of a Convert: Father Frederick Faber," Crisis, September 17, 2012.

Reviews:

Review of The Jesuits in the United States by David J. Collins, S.J. in Catholic Southwest 35 (2024): 45-46.

Review of American Pilgrimage by Christopher Shannon in Catholic Southwest 34 (2023), 91-93.

Review of Catholic Confederates: Faith and Duty in the Civil War South by Gracjan Kraszewski. in Catholic Southwest 33 (2022): 66-67.

Review of The Rise and Fall of Christian Ireland by Crawford Gribben, in Catholic Social Science Review 27 (2022): 141-144.

Review of Franciscans and American Indians in Pan-Borderlands Perspective edited by Jeffrey M.

Burns and Timothy J. Johnson, in Catholic Southwest 32 (2021): 56-57.

Review of Telling Stories that Matter: Memoirs & Essays by Marvin R. O'Connell and edited by William G. Schmitt, in Catholic Historical Review 107 (Spring 2021): 293-295.

Review of El Norte: The Epic and Forgotten Story of Hispanic North America by Carrie Gibson, in Catholic Southwest 31 (2020): 95-96.

Review of Catholics' Lost Cause: South Carolina Catholics and the American South, 1820-1861 by Adam Tate, in Catholic Social Science Review 24 (2019): 223-225.

Review of Dagger John: Archbishop John Hughes and the Making of Irish America by John Loughery, in American Catholic Studies 129 (Winter 2018): 73-75.

Review of Remapping the History of Catholicism in the United States: Essays from the US Catholic Historian edited by David Endres, in Catholic Southwest 29 (2018): 98-99.

Review of Between Church and State: Religion and Education in a Multicultural America (2nd. ed.) by James W. Fraser, in Catholic Southwest 28 (2017): 65-66.

Review of Inventing a Christian America: The Myth of the Religious Founding by Steven Green, in Catholic Southwest 27 (2016): 76-77.

Review of John Henry Newman: Man of Letters by M. Katherine Tillman, in Review of Metaphysics 69 (September 2016): 880-881.

Review of The Past as Pilgrimage by Christopher Shannon and Christopher Blum, in Fellowship of Catholic Scholars Quarterly 39(Spring/Summer 2016): 59-60.

Review of Catholic Borderlands: Mapping Catholicism onto American Empire, 1905-1935 by Anna Martinez, in Catholic Southwest 26 (2015): 99-100.

Review of Divided Friends: Portraits of the Roman Catholic Modernist Crisis in the United States by William Portier, in Journal of American History 101 (2014): 968.

Review of Irish Catholic Writers and the Invention of the American South by Bryan Giemza, in Civil War Book Review (Winter 2014). [www.cwbr.com]

Review of The Early Renaissance and Vernacular Culture by Charles Dempsey, in Review of Metaphysics 66 (September 2013): 866-868.

Review of Religious Lessons: Catholic Sisters and the Captured Schools Crisis in New Mexico by Kathleen Holscher, in Catholic Southwest 24 (2013): 83-85.

Review of Why Priests? A Failed Tradition, by Garry Wills, in Crisis, April 24, 2013.

Review of Farm Workers and the Churches: The Movement in California and Texas by Alan Watt, in Catholic Southwest 23 (2012): 92-93.

Review of No Closure: Catholic Practice and Boston's Parish Shutdowns by John Seitz, in Review of Politics 74 (Spring 2012): 353-356.

Review of The Furnace of Affliction: Prisons and Religion in Antebellum America by Jennifer Graber, in Civil War Book Review 13 (Fall 2011). [www.cwbr.com]

Review of Beyond the American Pale: the Irish in the West, 1845-1910, by David Emmons, in Catholic Southwest 22 (2011): 87-88.

Review of Catholics, Slaveholders, and the Dilemma of American Evangelicalism, 1835-1860, by W. Jason Wallace, in Journal of Church and State 53 (Summer 2011): 504-506.

Review of American Slavery, Irish Freedom, by Angela F. Murphy, American Studies 51(Spring-Summer 2010): 162-163.

Review of María of Ágreda: Mystical Lady in Blue, by Marilyn H. Fedewa, Catholic Southwest 21 (2010): 81-82.

Review of John Mitchel: Irish Nationalist, Southern Secessionist, by Bryan P. McGovern, Journal of Southern History 76 (November 2010): 1001-1002.

Review of Two Centuries of Faith: The Influence of Catholicism on Boston, 1808-2008, edited by Thomas H. O'Connor, Catholic Historical Review 96 (January 2010): 169-171.

Review of Missions, Missionaries and Native Americans by Maria Wade, Catholic Southwest 19 (2008): 111-112.

Review of A Nation of Extremes by Diarmaid Ferriter, in Social History of Alcohol and Drugs 23 (Spring 2009): 195-196.

Review of The Catholic Experience in America by Joseph Varacalli, Fellowship of Catholic Scholars Quarterly 31 (Fall 2008): 48-49.

Review of Women, Press and Politics during the Irish Revivial by Karen Steele, I-History (posted March 2008).

Review of the Witches of Abiquiu by Malcolm Ebright and Rick Hendricks, Catholic Southwest 18 (2007): 86-87.

Review of The Physicians' Crusade against Abortion by Frederick Dyer, Touchstone (November 2006): 48-49.

Review of American Catholic Social Thought edited by Patrick Carey, Journal of Markets and Morality 9 (Spring 2006) 173-174.

Review of Scholarship and Christian Faith: Enlarging the Conversation edited by Douglas Jacobsen and Rhonda Hustedt Jacobsen, Catholic Southwest 16 (2005): 77-78.

Review of Servants of the Poor: Teachers and Mobility in Ireland and Irish America, by Janet Nolan, American Historical Review 110 (December 2005): 1490-1491.

Review of Always Faithful: The New York Carmelites, the Irish People and Their Freedom Movement, by Alfred Isacson, O.C.D., Catholic Historical Review 91 (April 2005): 397-398

Review of Catholicism and American Freedom, by John T. McGreevy, Catholic Southwest 15 (2004): 88-90.

Review of In Search of An American Catholicism, by Jay P. Dolan, Catholic Southwest 14 (2003): 101-103.

Review of The Second Spring for the Church in America, by George A. Kelly, and Roman Catholicism after Vatican II, by Robert A. Burns, O.P., in Review of Politics 64 (Summer 2002): 540-542.

Review of Roscommon before the Famine: The Parishes of Kiltoom and Cam, 1749-1845, by William Gacquin, in Catholic Historical Review 86 (October 2000): 694-695.

Review of A History of Northern Ireland, 1920-1996, by Thomas Hennessey, in Catholic Historical Review 86 (October 2000): 700-701.

Review of Catholics and American Culture, by Mark S. Massa, S.J., in Records of the American Catholics Historical Society 109 (Fall-Winter 1998): 152-154.

Review of Being Right: Conservative Catholics in America, edited by Mary Jo Weaver and R. Scott Appleby, in Catholic Historical Review 83 (July 1997): 531-534.

Review of The De-Moralization of Society: From Victorian Virtues to Modern Values, by Gertrude Himmelfarb, in Review of Politics 58 (Summer 1996): 636-639.

Review of American Catholics and Conservative Politics, 1950-1985, by Patrick Allitt, in Review of Politics 57 (Winter 1995): 176-179.

Review of Father Mathew and the Irish Temperance Movement, 1838-1849, by Colm Kerrigan, in Catholic Historical Review 79 (October 1993): 759-761.

Manuscript Reviews:

University of Tennessee Press

Journal of American Ethnic History

Louisiana History

Catholic Historical Review

Cogent Arts and Humanities

Armed Forces Quarterly

Newport History

American Nineteenth Century History

American Catholic Studies.

Conference Papers/Presentations:

“From the Margins to the Mainstream: The Rise of the Irish in Gilded Age Newport.” Newport Veterans of Foreign Wars Lecture, Newport, Rhode Island, March 26, 2025.

“In Search of Zion: The Allied Powers’ Role in the Founding of Israel.” Pell Center for International Relations World War II at 80 Roundtable, Salve Regina University, Newport, Rhode Island, March 5, 2025.

“Triumphs and Trials: Saint Mary’s in the Gilded Age.” St. Mary’s Church, Newport, Rhode Island, December 15, 2024.

“Building Bridges: Mercy Ministries in Newport since 1854.” McKillop Library Lecture, Salve Regina University, September 26, 2024.

“Dr. Grace and Mr. Bennett: Irish Newport’s Gilded Age Leaders.” Museum of Newport Irish History Lecture, September 18, 2024.

“Monsignor James Coyle, Master Builder.” Msgr. Coyle School All Class Reunion, Taunton, Massachusetts, October 1, 2023.

“History Matters.” McAuley Institute for Mercy Education, Salve Regina University, February 8.

2023.

"Where Have All the Jesuits Gone? Their Disappearance from Jesuit Colleges and Universities." Annual Meeting of the Society of Catholic Social Scientists, St. Vincent's College, Latrobe, Pennsylvania, October 29, 2022.

"Changing Fortunes among America's Nuns: The Contrasting Experiences of the Leadership Conference of Women Religious and the Conference of Major Superiors of Women." Annual Meeting of the Society of Catholic Social Scientists, Franciscan University of Steubenville, Steubenville, Ohio, October 29, 2021.

"Irish American and African American Collaboration in Gilded Age Newport." Museum of Newport Irish History Crowley Lecture, September 13, 2021.

"Salve Regina's Mercy Heritage." National Mercy Honor Society Induction, Salve Regina University, November 8, 2020.

"Ireland's Jewish Community: A Very Brief History." Museum of Newport Irish History Crowley Lecture, November 4, 2019.

"Managing the Spoils of War: Theodore Roosevelt and the Administration of the Philippines." Pell Center for International Relations Forum on Theodore Roosevelt, Salve Regina University, Newport, Rhode Island, February 20, 2019.

"Divided Loyalties: The Irish in Civil War Newport." McKillop Library Lecture, Salve Regina University, September 17, 2018.

"From Dangerous Threat to 'Illustrious Ally': Changing Perceptions of France in Eighteenth Century Rhode Island." Alliance Française Bastille Day Meeting, Jamestown, Rhode Island, July 16, 2018.

*"The New Romanists: **America's** Changing Perspective on Papal Authority."* Annual Meeting of the Society of Catholic Social Scientists, Franciscan University of Steubenville, Steubenville, Ohio, October 28, 2017.

"The French Effect: How Rochambeau's Occupation Benefited the Irish in Newport." Museum of Newport Irish History Crowley Lecture, October 16, 2017.

"A Doomed Rebellion? The Easter Rising and its Impact on Irish Newporters." Museum of Newport Irish History Crowley Lecture, April 12, 2016.

"The Nature and Danger of Popery in the Land': Anti-Catholicism in Colonial New England." Annual Meeting of the Society of Catholic Social Scientists, Franciscan University of Steubenville, Steubenville, Ohio, October 24, 2015.

Pell Center for International Relations Forum on the Civil War, Salve Regina University, Newport,

Rhode Island, April 22, 2015.

"Blue State Blues, Red State Opportunities: The Changing Fortunes of American Catholicism." Annual Meeting of Society of Catholic Social Scientists, Mt. St. Mary's University, Emmitsburg, Maryland, October 24, 2014.

"World War I and the Transformation of Newport." Pell Center for International Relations Forum on World War I, Salve Regina University, Newport, Rhode Island, October 7, 2014.

"Frederick Douglass in Ireland." Ceilidhe Club, Cranston, Rhode Island, February 6, 2014.

"Faded Glory: Images of Newport in Thornton Wilder's Theophilus North." Annual Meeting, American Literature Association, Boston, Massachusetts, May 23, 2013.

"'How Happy We Should Have Been Together!': Charles Stewart Parnell's Relationship with Abigail Woods of Providence, Rhode Island." Irish Cultural Association of Rhode Island, Providence College, Providence, Rhode Island, April 15, 2013.

"The Rise and Fall of Charles Stewart Parnell, Ireland's 'Uncrowned King.'" Museum of Newport Irish History Crowley Lecture, Newport, Rhode Island, October 15, 2012.

"Irish Influence in Gilded Age Newport." Annual Meeting of Dublin Seminar for New England Folklife, Deerfield, Massachusetts, June 23, 2012.

"Catholicism in Antebellum Newport." Newport Historical Society Lecture, Old Colony House, Newport, Rhode Island, February 2, 2012.

"The Irish in Gilded Age Newport." Museum of Newport Irish History Crowley Lecture, Newport, Rhode Island, October 13, 2011.

"At Work in the Eden of America: Nuns' Role in Newport's Catholic Community." McKillop Library Lecture, Salve Regina University, Newport, Rhode Island, October 4, 2010.

"'We Have Grown and Prospered': Catholic Expansion in Newport, 1825-1950." American Catholic Historical Association Annual Meeting, San Diego, California, January 7, 2010.

"Irish Immigration and the Founding of St. Mary's Parish." Old St. Mary's 165th Anniversary Lecture, West Warwick, Rhode Island, November 1, 2009.

"The Rise of Catholicism in Newport, 1880-1950." Museum of Newport Irish History Crowley Lecture, Newport, Rhode Island, January 8, 2009.

"'Come Out of the Councils of the Slaveholders!': Abolitionist Appeals to Irish Americans, 1830-1850." Biannual Conference, The Historical Society, Johns Hopkins University, Baltimore, Maryland,

June 7, 2008.

"New England's Unsung Saints." All Saints Day Conference, Thomas More College of the Liberal Arts, Merrimack, New Hampshire, November 1, 2007.

"From the Margins to the Mainstream: Catholics in America." Adult Faith Formation Lecture, Our Lady of Mercy Parish, East Greenwich, Rhode Island, November 28, 2006.

"Father Mathew's American Legacy." Father Mathew Conference, Tipperary, Ireland, June 7, 2006.

"The Rise and Fall of Repeal: Slavery and Irish Nationalism in Antebellum Philadelphia." Annual Meeting, American Catholic Historical Association, Philadelphia, January 5, 2006.

"The Changing Face of Faith: Christianity Beyond the West." Dean's Forum, Salve Regina University, Newport, Rhode Island, October 29, 2004

"'The Nation's Guest?': The Struggle to Manage Father Mathew's American Tour, 1849-1851." Annual Meeting, American Conference on Irish Studies, University of St. Thomas, Minneapolis, Minnesota, June 5, 2003.

"Scandal and Shame: American Catholics' Struggles in the Nineteenth Century." Forum on the Crisis in the Church, Salve Regina University, Newport, Rhode Island, November 18, 2002.

"Father Mathew, Temperance and Irish America." Fall Meeting, Irish Cultural Association of Rhode Island, Providence College, Providence, Rhode Island, October 28, 2002.

"A House Divided: The Catholic Debate on Slavery in Antebellum America." Annual Meeting of the Society of Catholic Social Scientists, Ave Maria Law School, Ann Arbor, Michigan, October 26, 2001.

"'Safe in Old Ireland:' Frederick Douglass' Tour, 1845-1846." Fall Meeting of the New England Historical Association, Stonehill College, Easton, Massachusetts, October 21, 2000.

"Eamon DeValera's American Ties." Museum of Newport Irish History Annual Meeting, Newport, Rhode Island, March 26, 2000.

"Saints over Sacraments? Italian and Italian American Spiritual Traditions." Italian American Historical Association Annual Meeting, Hunter College, New York City, November 14, 1998.

"Strained Relations: John Courtney Murray's Dealings with the Kennedy Campaign." Society of Catholic Social Scientists meeting, Franciscan University, Steubenville, Ohio, October 24, 1998.

Administrative Experience

*Chairman, Department of History, 2005 – 2017, 2023-
Director, VIA Program, 2003-2005 (VIA is an interdisciplinary program open to students from all
majors that explores notions of the Good Life.)*

Teaching Experience

2004- *Professor of History, Salve Regina University*

1997-2004 *Associate Professor of History, Salve Regina University.*

1992-1997 *Assistant Professor of History, Salve Regina University.*

1990-1992 *Instructor, History Department, University of Notre Dame.*

Courses Taught at Salve Regina University

*GST 450: From Appeasement to Victory: England in the 1930s and '40s
HIS 103 Western Civilization I
HIS 104 Western Civilization II
HIS 110 Survey of America
HIS 201 Europe 1789-1914
HIS 202 Europe 1914-1990s
HIS 270 The Historian's Craft
HIS 308 Modern France
HIS 310 Modern England
HIS 311 Modern Ireland
HIS 312 Modern Italy
HIS 313 American Immigrant Experience
HIS 390 Historical Research Methods
HIS 490 Senior Seminar
HIS 491 Internship
VIA 220 Hitler and the Holocaust
UNV 101 Fighting Hitler: Resistance to Nazism
Newport and the Nation: America 1630s-1930s – Summer Class for Swiss Teachers
A Nation of Immigrants: America 1630s-1960s – Summer Class for Chilean Teachers
Guest Lecturer, American Studies 405, Fairfield University Graduate Study Away Course, Newport:
"A Lively Experiment"*

Service to Salve Regina University

*Economics Department Search Committee, 2024-2025
Executive Committee of the Faculty Assembly, 2018-2021
Presidential Search Committee, 2018*

Grievance Committee, 2016-2018
Core Review Committee, 2014-2016
Faculty Senate, 1993-1996
University Mission Committee, 1996-2009
NEASC Accreditation Steering Committee, 1999-2001
Pell Honors Council, 2000-2004, 2011-2019
VIA Committee, 1996-2016
Faculty Manual Committee, 1998-2003, 2013-2016, 2019-2021
Sabbaticals Committee, 2000-2007, 2010-2013, 2017-2019, 2021-2025
Faculty Travel, 1997-2004
Small Grants, 1995-1999, 2002-2004
Atwood Lecture Committee, 1996-1999
PhD Advisory Committee, 1997-2006
Faculty Advisory Committee on Salary and Benefits, 2000-2019
Core Curriculum Task Force, 2011-2013
Faculty Mentoring Program, 2001-2003, 2012-2013, 2016-

Honors & Grants

Second Prize for Best Anthology and Third Prize for Best History Book, Catholic Press Association Awards, June 2024. (David Endres, ed., Slavery and the Catholic Church in America: Historical Studies [Catholic University of America Press, 2023])

McAuley Institute Faculty Fellow, Immigration Seminar, Salve Regina University, 2023-2025.

Sr. M. Therese Antone Faculty Grant, Salve Regina University, 2022.

Honorable Mention for Best Article in a Scholarly Magazine, Catholic Press Association Award, June 2012. ("We Hold These Truths at Fifty: John Courtney Murray's Contested Legacy")

Sr. M. Therese Antone Faculty Recognition Award, Salve Regina University, 2010.

Faith and Reason Institute Faculty Seminar on the Catholic Intellectual Tradition, Allenspark, Colorado, 2010.

Cushwa Center for the Study of American Catholicism Research Travel Grant, University of Notre Dame, 2007.

Gilder-Lehrman Institute Faculty Seminar on Slavery, Scholarship and Public History, Columbia University, 2006

Summer Seminar on Twentieth Century World Christianity, Calvin College, 2004

Faculty Advisor, National Civic Literacy Board, 2003-2011.

Cushwa Center for the Study of American Catholicism Hibernian Research Award, University of Notre Dame, 2003.

Collegium Summer Colloquy on Faith and the Intellectual Life, Fairfield University, 2002.

National Endowment for the Humanities Summer Seminar, University of Notre Dame, 2001.

Irish American Cultural Institute Research Grant, 2000.

Cushwa Center for the Study of American Catholicism Research Travel Grant, University of Notre Dame, 1998.

Faculty Recognition Award, Salve Regina University, 1998.

National Endowment for the Humanities Summer Seminar, Boston University, 1996.

USMA-ROTC Military History Summer Fellowship, US Military Academy, West Point, NY, 1994.

National Endowment for the Humanities Summer Seminar, Yale University, 1993.

Professional Societies

American Catholic Historical Association

American Conference on Irish Studies

Irish American Cultural Institute

Society of Catholic Social Scientists