

## CURRICULUM VITAE

### LINDA M. FRENCH

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#### Academic Degrees

A.B.	Astronomy (minor in physics)	1973	Indiana University
M.S.	Astronomy	1977	Cornell University
Ph.D.	Astronomy (minor in physics)	1980	Cornell University

#### Professional Interests

Physical properties of primitive solar system objects  
History of astronomy

#### Awards and Honors

2015	American Astronomical Society Harlow Shapley Lectureship
2010	Herbert C. Pollack Award for Research in History of Astronomy, Dudley Observatory
1992	Gaposchkin Grant for Meritorious Research, American Astronomical Society Small Research Grant Program
1988	Asteroid "3506 French" named after Linda M. French in honor of research and educational accomplishments  National Research Council Senior Research Associateship

#### Full-Time Academic Appointments

2008- present	Professor of Physics, Illinois Wesleyan University
2002- 2008	Associate Professor of Physics, Illinois Wesleyan University Bloomington, IL
1992-2002	Associate Professor of Physical Science, Department of Arts and Sciences, Wheelock College, Boston, MA
1989-1992	Science Department Head and Teacher, The Park School, Brookline, MA

### **Full-Time Academic Appointments, continued**

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|-----------|---|
| 1988-1989 | National Research Council Senior Research Associate, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA  |
| 1982-1988 | Lecturer and Postdoctoral Research Associate, Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA |
| 1981-1982 | Visiting Assistant Professor, Department of Physics and Astronomy, Bates College, Lewiston, ME  |
| 1973-1980 | Teaching and Graduate Research Assistant, Department of Astronomy, Cornell University, Ithaca, NY   |

### **Part-Time/Adjunct Academic Appointments**

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|-----------|--|
| 2010      | Honorary Visiting Professor of Physics, University of York, York, England  |
| 1997-2000 | Project Astronomer, MicroObservatory, Science Education Department, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA |
| 1993-1995 | Project Manager, Project <i>SPICA</i> , Science Education Department, Harvard-Smithsonian Center for Astrophysics              |
| 1990-1992 | Consulting Teacher, Project STAR<br>Harvard-Smithsonian Center for Astrophysics  |
| 1988-1990 | Adjunct Astronomer, Lowell Observatory, Flagstaff, AZ  |

### **Leadership and Service in the Astronomical Community**

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|--------------|---|
| 2012-2015    | Elected to Committee of Historical Astronomy Division, American Astronomical Society  |
| 2008-2010    | Member, Education Advisory Board, Division of Planetary Sciences (DPS) of American Astronomical Society (AAS)                           |
| 2003-2006    | Executive Secretary and Member of DPS Executive Committee<br>(Asked to run for DPS Chair in 2007; declined)                             |
| 2004         | Invited Participant, National Optical Astronomy Workshop, "Building the System from the Ground Up," small telescopes subgroup           |
| 2001-present | Panel Reviewer, National Science Foundation Planetary Astronomy and Education Programs; NASA Planetary Astronomy and Education Programs |

## **Leadership and Service in the Astronomical Community, continued**

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|-----------|---|
| 1996      | Member, Education Task Force, NASA Office of Space Science                |
| 1993-1997 | Education Officer, AAS Division for Planetary Sciences                    |
| 1993      | Education Advisory Panel, NASA Space Telescope Science Institute          |
| 1991      | Education Advisory Panel, American Association of Variable Star Observers |

## **Asteroid Citation**

3506 French: Named in honor of Linda M. French, planetary scientist at the Department of Earth, Atmospheric and Planetary Sciences of the Massachusetts Institute of Technology. An active teacher, French has encouraged undergraduate research in planetary astronomy by using a hands-on approach to observing and data analysis and by arranging for students to observe at major facilities. Involved in research on the shapes, spin states, and surface compositions of small solar-system bodies, she has emphasized the properties of Trojan asteroids in an effort to understand their origins. *Minor Planet Circular* 12805, 1988. Published by the Minor Planet Center of the International Astronomical Union, Cambridge, MA.

## **Professional Activities and Invited Talks**

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|------|---|
| 2014 | Keynote Speaker: "What <i>is</i> an Amateur Astronomer Anyway? Collaboration between Professional and Amateur Astronomers." Society of Astronomical Sciences, Big Bear, CA.<br><br>Keynote Speaker: "How Amateur Astronomers are Testing Theories of Solar System Formation." Twin City Amateur Astronomers, Normal.<br><br>Invited Public Lecture: "Observing Asteroids for Fun and Astronomical Profit." Annual Meeting of the American Astronomical Society, Washington, D. C.<br><br>"Asteroids: Rogues and Rosetta Stones." Lunch and Learn Program, McLean County Historical Society. |
| 2012 | Where did John Goodricke Make His Observations? Talk at Treasurer's House (National Trust Property where Goodricke lived), York, England  |
| 2011 | John Goodricke and Edward Pigott: Were There "Amateur" Astronomers the 18th Century? History of Science Colloquium, University of Toronto<br><br>The Jovian Trojans: Fossils from the Early Solar System? Astronomy Colloquium, University of Toronto   |

## **Professional Activities and Invited Talks, continued**

- 2011            John Goodricke, Edward Pigott, and Their Work on Variable Stars.  
                  Invited Review talk at Joint Meeting of American Association of  
                  Variable Stars Observers and Historical Astronomy Division of the  
                  American Astronomical Society. Boston, MA
- John Goodricke, Edward Pigott, and Their Work on Variable Stars.  
                  Science Colloquium, Lowell Observatory, Flagstaff, AZ.
- The Life and Work of John Goodricke of York. Natural Sciences  
                  Colloquium, Illinois Wesleyan University
- 2010            The Life and Work of John Goodricke of York. Science Colloquium,  
                  Cerro Tololo Interamerican Observatory, La Serena, Chile
- The Life and Work of John Goodricke of York. Yorkshire  
                  Philosophical Society Lecture Series, Museum Gardens, York.
- 2009            Hearing with the Eye: The Astronomical Education of John  
                  Goodricke. Goodricke Lecture Series, Goodricke College, University  
                  of York.
- 2008            What's in a Name? On Asteroids, Comets, and 'Dwarf Planets','  
                  Faculty Colloquium, Illinois Wesleyan University
- 2007            "Comets in Asteroids' Clothing," Physics Department Colloquium,  
                  Illinois State University
- 2005            "A Comet in Asteroid's Clothing," Astronomy Department  
                  Colloquium, University of Illinois at Urbana-Champaign
- 2004            Invited Participant, National Optical Astronomy Workshop, "Building  
                  the System from the Ground Up"
- 1995            AAS Education Session, "Collaborative Education Projects in the  
                  Boston Area." January 5, Tucson, AZ.
- NSTA National Meeting Presenter: "Project SPICA: Hands-On  
                  Astronomy for the Classroom." March 23, Philadelphia, PA.
- Astronomical Society of the Pacific Teachers' Workshop:  
                  "Constructing the H-R Diagram." June 24, College Park, MD.
- Astronomical Society of the Pacific Education Symposium:  
                  "Astronomy and Space Science for Preservice Teachers." June 26,  
                  College Park, MD.
- 1994            Wheelock College Works In Progress Series: "A Summer Workshop  
                  for Science Teachers."

## Professional Activities and Invited Talks, continued

- NSTA Regional Meeting Session Chair: "Project SPICA," Portland, OR.  
DPS Teachers Workshop Organizer: "Exploring Our Solar System and Beyond," Bethesda, MD.
- 1994 Central Michigan University Physics Department Colloquium: "The Trojan Asteroids: A Different Asteroid Population," Ithaca, MI.
- NSTA Regional Meeting Short Course Presenter: "Project SPICA: Activities for the Classroom." Las Vegas, NV.
- 1993 Invited Talk on "Planetary Science and Astronomy in the Middle School Classroom," special education session of the Lunar and Planetary Science Conference, NASA Johnson Center, Houston, TX.
- 1993 Astronomy Department Colloquium: "The Trojan Asteroids: A Different Asteroid Population." Indiana University Department of Astronomy, Bloomington, IN.
- Taller de la Montaña: "Mejorando Educacion Cientifica." Observatorio Interamericano de Cerro Tololo, La Serena, Chile.
- Scientific Staff Colloquium: "Improving Scientific Education" Cerro Tololo Interamerican Observatory, La Serena, Chile.
- 1993 Invited Talk, American Astronomical Society Education Session, "Interdisciplinary Science in the Classroom." Berkeley, CA.
- Invited Panelist for discussion on "The Role of Planetary Science in K-12 Education." Division of Planetary Sciences, American Astronomical Society, Boulder, CO.
- Workshop: "Using the Project STAR spectrometer to teach astronomy, physics, and chemistry," DPS Workshop for pre-college teachers, Boulder, CO.
- 1992 Invited Talk on "Combining Middle School Science Teaching with Astronomical Research." Committee on Education, American Association of Physics Teachers National Meeting, University of Maine, Orono.
- "Science, Math, Teaching, and Gender," workshop for early childhood educators with J. Winokur. Wheelock College New York Alumnae Association.
- Astronomy Department Colloquium: "Hands-On Astronomy in the Middle School." Boston University Department of Astronomy, Boston, MA.

### **Professional Activities and Invited Talks, continued**

- Panelist, Working Group on Scope, Sequence, and Coordination for Planetary Science, National Science Teachers' Association and The Planetary Society, Pasadena, CA.
- Attended Connecticut Science Teachers Association Workshop on "Hands On Projects for High School Biology."
- 1991 Invited Workshop Presentation on "Hands-On Astronomy in the Middle School." DPS Meeting Workshop for secondary school teachers, NASA Ames Research Center, Palo Alto, CA.
- 1990 Invited DPS Workshop Talk on "Improving Science Education: the Role of Planetary Science." University of Virginia, Charlottesville, VA.
- Park School Teacher Workshop: "Misconceptions and How They Block Learning."
- 1989 Organizing Committee for "Exploring Our Solar System," a workshop for secondary school teachers, DPS meeting, Brown University, Providence, RI.
- Invited DPS workshop talk on "Ground-based planetary astronomy."
- 1988 Chair, DPS Workshop on Distant Asteroids and Comets
- Invited Panelist for "Funding for Astronomy" Workshop Advisory Board, Committee on the Status of Women in Astronomy.

### **External Grants (Principal Investigator unless Otherwise Noted)**

- "Research at Undergraduate Institutions: Photometric Survey of Jovian Trojans." National Science Foundation Planetary Astronomy Program, \$256,451, 2012-2015. Georgia State University and Lowell Observatory, subcontractees.
- "Rotation Studies of Jovian Trojan Asteroids." American Astronomical Society Small Research Grant, \$6000, 2011.
- "Hearing With the Eye: The Life of John Goodricke." Dudley Observatory Herbert C. Pollock Award, \$2500, 2010.
- "Hearing With the Eye: The Life of John Goodricke." American Astronomical Society Small Research Grant, \$5000, 2009.
- "Physical Studies of Primitive Solar System Objects." Cottrell College Research Grant, Research Corporation, \$72,000, 2005-2009.

"Project ASTRAEA: Accessible Stargazing Techniques, Resources, and Activities for Educators in Astronomy." R. Stefanik, Principal Investigator, NASA IDEA Grant, \$20,000, 1995.

"Teacher Education Addressing Mathematics and Science in Boston and Cambridge." I.I. Shapiro, L.M. French, and others, Principal Investigators, NSF Collaborative for Excellence in Teacher Preparation, \$5,000,000, 1994-1996.

"Focus on Science." NSF Education Division of Teacher Preparation, \$60,000, 1997-2000.

"Phase Curves of Distant Asteroids." Gaposchkin Research Grant from AAS Small Research Grants Program, \$3,000, 1992.

"Photometric Properties of Trojan Asteroids." NASA Planetary Astronomy Program, \$20,000, 1988--1990.

"Photometric Properties of Outer Belt Asteroids," National Science Foundation Planetary Astronomy, \$80,000, 1986--1988.

### **Internal Grants**

Artistic and Scholarly Development (ASD) grants for asteroid research in 2003, 2004, 2010, and 2011.

ASD grants for historical research in 2008 and 2009.

### **Media and Press Outreach**

2011-present Frequent appearances on WJBC with Jim Fitzpatrick to discuss astronomical current events

2012 L. M. French. "Disability History Month: John Goodricke the Deaf Astronomer." *BBC Magazine Online*, 12 December 2012, [bbcmagazine](#)

2010 L. M. French. Script advisor and appearance in John Goodricke segment for *Wicked*, series 3, programme 5. Series produced by British Sign Language Trust for airing on BBC, ITV, Channel 4, and Sky networks in UK. [wicked3](#)

### **Book Editorship**

2013 L. M. French and P. Kalas, editors. *Planets, Stars, and Stellar Systems, Volume 3: Solar and Extrasolar Planets*. T. Oswalt, editor-in-chief, Springer, Dordrecht. [volume3](#)

Peer-Reviewed Publications (bold denotes undergraduate co-author.)

- 2015 L. M. French, R. D. Stephens, L. H. Wasserman, D. R. Coley, and **J. Sieben**, "Rotation Lightcurves of Small Jovian Trojan Asteroids: A First Look." *Icarus*, under review.
- J. Emery, F. Marzari, A. Morbidelli, L. M. French, and T. Grav. The Complex History of Trojan Asteroids. Book Chapter for *Asteroids IV*, University of Arizona Press, Tucson, in press.
- K. Connour**, T. Wright, and L. M. French. Rotation Period of 584 Semiramis. *Minor Planet Bulletin* **42-1**, 4.
- 2014 R. D. Stephens, D. R. Coley, and L. M. French. Trojan Asteroids Observed from CS3: 2014 January-May. *Minor Planet Bulletin* **41-4**, 210-2012.
- R. D. Stephens, L. M. French, **C. Davitt**, and D. R. Coley. "At the Scaean Gates: Observations of Jovian Trojan Asteroids July-December 2013." *Minor Planet Bulletin* **41**, 95-100.
- 2013 L. M. French, R. D. Stephens, D. R. Coley, L. H. Wasserman, F. Vilas, and **D. M. LaRocca**. "A Troop of Trojans: Photometry of 24 Jovian Trojan Asteroids." *Minor Planet Bulletin* **40**, 196-201.
- R. D. Stephens and L. M. French. "A lightcurve for (152756) 1999 JV3." *Minor Planet Bulletin* **40**, 196.
- 2012 R. D. Stephens, L. M. French, and L. W. Wasserman. "A Deep Main-Belt Asteroid Survey." *Minor Planet Bulletin*. **39**, 3, 193-195.
- L. M. French, R. D. Stephens, D. R. Coley, R. Megna, and L. H. Wasserman. "Photometry of 17 Jovian Trojan Asteroids." *Minor Planet Bulletin* **39-3**, 183-187.
- L. M. French. "John Goodricke, Edward Pigott, and Their Work on Variable Stars." *Jour. of the American Association of Variable Star Observers*. **40**, **1**, 1-13.
- 2011 R. D. Stephens, L. M. French, D. R. Coley, and L. H. Wasserman. "The curse of Sisyphus." *Minor Planet Bulletin* **38-4** 212-213
- L. M. French, R. D. Stephens, S. M. Lederer, D. R. Coley, and **D. A. Rohl** "Preliminary results from a study of Trojan Asteroids." *Minor Planet Bulletin* **38-2**, 116-120.
- L. M. French, R. D Stephens, S. M. Lederer, and **D. A. Rohl**, "The lightcurve of Trojan Asteroid 884 Priamus." *Minor Planet Bulletin* **38-1**, 2-3.

## Peer-Reviewed Publications, continued

- 2011 R. D. Stephens and L. M. French. "878 Mildred revealed." *Minor Planet Bulletin* **38-1**, 1.
- L. M. French. "Hearing with the eye: The life and work of John Goodricke." *Annual Report of the Yorkshire Philosophical Society for 2010*. Yorkshire Philosophical Society, York, England.
- 2005 M. Buie, L. M. French, and 10 others. Minor Planet Observations [807 Cerro Tololo]. *Minor Planet Circular* 75939, 2.
- P.A. Abell, Y.R. Fernandez, P. Pravec, L.M. French, T.L. Farnham, M.J. Gaffey, P.S. Hardersen, P. Kusnirak, L. Sarounova, and **G.S. Narayan**. "Physical Characteristics of Asteroid-Like Comet C/2001 OG108 (LONEOS)." *Icarus* **179**, 174-194.
- S.M. Lederer, D. Domingue, F. Vilas, M. Abe, T. Farnham, P. Weissman, L.M. French, M. Ishiguro, K.S. Jarvis, S.M. Larson, S. Lowry, P. Massey, Y. Ohba, and Y. Takagi. "Physical Characteristics of Hayabusa Target Asteroid 25143 Itokawa," *Icarus*, **173**, 153-165.
- 2001 P. Sadler and others. "MicroObservatory Net: A Network of Automated Remote Telescopes Dedicated to Educational Use". *Journal of Science Education and Technology*, Vol. 10, No. 1.
- 2000 D. Borkovitz, L. French, and others. "TEAMS-WC: Teacher Education Addressing Mathematics and Science at Wheelock College." A Wheelock College Report for the National Science Foundation.
- 1997 L.M. French. "Chiron." *Encyclopedia of Planetary Sciences*, Chapman and Hall, New York and London, J.E. Shirley and R.W. Fairbridge, editors.
- L.M. French. "The Hilda Asteroids." *Encyclopedia of Planetary Sciences*, Chapman and Hall, New York and London, J.E. Shirley and R.W. Fairbridge, editors.
- L.M. French. "The Trojan Asteroids." *Encyclopedia of Planetary Sciences*, Chapman and Hall, New York and London, J.E. Shirley and R.W. Fairbridge, editors.
- L.M. French. "Asteroids." *Encyclopedia of Planetary Sciences*, Chapman and Hall, New York and London, J.E. Shirley and R.W. Fairbridge, editors.

### Peer-Reviewed Publications, continued

- 1996 L.M. French and D. Schatz. "Teacher Preparation." In *Astronomy Education: Current Developments, Future Coordination*, Astronomical Society of the Pacific Conference Series **89**, J.R. Percy, editor, Astronomical Society of the Pacific, San Francisco.
- M. Hamuy and others. "BVRI Lightcurves of 29 Type Ia Supernovae" *Astronomical Journal* **112**, 2408.
- 1992 L.M. French. Book Review of "*Seeing the Solar System: Telescopic Project and Activities in Astronomy*" by Fred Schaaf, *Icarus*, **97**, 159.
- 1991 L.M. French. [Asteroid Observations I.] *Minor Planet Circ.* 15827-15832.
- 1990 L.M. French. [Asteroid Observations I.] *Minor Planet Circulars* 15631-15635.
- L.M. French. (1990). [Asteroid Observations II.] *Minor Planet Circulars* 15769.
- 1989 L.M. French, F. Vilas, D.J. Tholen, and W.K.Hartmann. "Distant Asteroids and Chiron." Invited review chapter for **Asteroids II** book, R. P. Binzel, T. Gehrels, and M. Matthews, editors, University of Arizona Press, Tucson.
- L.M. French and R.P. Binzel. "Charge-coupled Device Photometry of Asteroids." Invited review chapter for **Asteroids II** book, R.P. Binzel, T. Gehrels, and M. Matthews, editors, University of Arizona Press, Tucson.
- 1988 L.M. French, J. Veverka and P. Thomas. "Brighter Material on Deimos: A Particle Size Effect in a Carbonaceous Material?" *Icarus*, **75**, 127-132.
- R.G. French, J.L. Elliot, L.M. French, J.A. Kangas, K.J. Meech, **M. Ressler**, M.W. Buie, J.A. Frogel, J.B. Holberg, J. Jimenez-Fuensialida, M. Joy, and R.A. Simpson. "Uranian Ring Orbits from Earth-based and Voyager Occultation Observations," by *Icarus*, **73**, 349-378.
- S.J. Bus, E. Bowell, and L.M. French. "2060 Chiron: Further Evidence for Cometary Activity." *I.A.U. Circular* number 4684, December 8.
- L.M. French. [Asteroid Observations I.] In *Minor Planet Circulars* 15332-15364. Published by the Minor Planet Center at the Smithsonian Astrophysical Observatory.
- L.M. French. [Asteroid Observations II.] *Minor Planet Circulars* 15506-15507.

### Peer-Reviewed Publications, continued

- 1987 L.M. French. "Rotation Properties of Four L5 Trojan Asteroids: Evidence from CCD Photometry." *Icarus*, **72**, 327-341.
- 1986 **C.E. Covault** and L.M. French. "JHK Magnitudes of Occultation Candidate Stars. Neptune 1986-1990, Uranus 1987-1990, and Pluto 1986," *Icarus*, **66**, 630-631.
- A.S. Bosh**, J.L. Elliot, S.E. Kruse, R.L. Baron, E.W. Dunham, and L.M. French. "Magnitudes of Pluto Occultation Candidate Stars," *Icarus*, **66**, 556-560.
- 1986 L.M. French, **G. Morales**, **S.L. Gaiser**, and J. Frogel. "Photometry of Occultation Stars II: Uranus 1985-1990 and Saturn 1986-1991." *Icarus*, **67**, 540-542.
- 1985 L.M. French, **G. Morales**, **A.S. Dalton**, J.J. Klavetter, and S.R. Conner. "Photometry of Occultation Candidate Stars. I. Uranus 1985 and Saturn 1985-1991." *Astronomical J.*, **90**, 668-669.
- 1983 L.M. French and J.F. Veverka. "Limb Darkening of Meteorites and Asteroids." *Icarus*, **54**, 38-47.
- 1978 M. M. Davis and L. S. May. "New observations of the radio absorption line in 3C 286, with potential application to the direct measurement of cosmological deceleration." *Astrophys. J.*, **219**, 1-4.

### Contributed Papers and Abstracts

- 2014 J. Chatelain, T. J. Henry, L. M. French, and D. E. Trilling. Picking Sides: Classifying Jupiter's Greeks and Trojans. American Astronomical Society DPS Meeting #46, #415.15.
- L. French, R. Stephens, D. Coley, and L. Wasserman. Lightcurves and Rotational Periods of Comet-Sized Jovian Trojan Asteroids. *Asteroids, Comets, Meteors 2014*. Conference Proceedings, Helsinki, Finland, K. Muinonen, editor.
- L. M. French, R. D. Stephens, D. Coley, L. H. Wasserman, D. LaRocca, and F. Vilas. A Troop of Trojans: Photometry of 24 Jovian Trojan Asteroids. AAS Meeting #223, #247.05.
- 2013 J. Chatelain, T. Pewitt, T. Henry, L. French, J. Winters. A Search for Colorful Characters Among the Jupiter Greeks and Trojans. American Astronomical Society, DPS meeting #45, #208.32.
- 2012 J. Chatelain, T. Henry, L. M. French., R. D. Stephens, J. G. Winters, T. Pewitt. "What Separates the Greeks from the Trojans?" *DPS Abstract #44*, 210.09.

## Contributed Papers and Abstracts, continued

- R. D. Stephens, L. M. French, D. R. Coley, R. Megna, , and L. H. Wasserman. "Photometry of 10 Jovian Trojan Asteroids." *DPS Abstract #44*, 110.14.
- L. M. French. "Where Did John Goodricke Make His Observations? New Evidence." *AAS Abstract #219*, 434.02.
- 2011 L. M. French, R. D. Stephens, S. M. Lederer, L. H. Wasserman, D. R. Coley, **D. A. Rohl**, and **D. M. LaRocca**. "Preliminary Results from a Survey of Jovian Trojan Asteroids." *Abstract of EPSC-DPS Joint Meeting*, 351.
- L. M. French. "The "Three York Astronomers" and the Royal Society." *A.A.S. Abstract #217*, 111.04.
- L. M. French. "John Goodricke, Edward Pigott, and Their Study of Variable Stars." *A.A.S. #218*, 99.02.
- 2010 L. M. French. "The Jovian Trojan Asteroids." *Jour. Brit. Astr. Assoc.* **120**, 371-372.
- L. M. French. "Searching for John Goodricke." *A.A.S. Abstract #215*, 304.01.
- S. M. Lederer, L. M. French, R. D. Stephens, **D. A. Rohl**, K. Friedrich, T. Hufford, F. Jasmim, F. Luzia, A. Khairunnisa, J. Silha. "Rotation
- S. M. Lederer, L. M. French, R. D. Stephens, **D. A. Rohl**, K. Friedrich, T. Hufford, F. Jasmim, F. Luzia, A. Khairunnisa, J. Silha. "Rotation Properties of Three Jovian Trojan Asteroids." *DPS Abstract #42*, 39.24.
- 2009 L. M. French. "An Early Astronomical Observation by John Goodricke." *A.A.S. Abstract #213*, 400.03.
- L. M. French. "The Astronomical Education of John Goodricke (1764-1786): A First Look." *DPS Abstract #41*, 68.24.
- 2008 L. M. French and I. Stuart. "Algol: an Early Candidate for a Transiting Exoplanet." *B.A.A.S.* **40**, 10.01.
- 2004 S. M. Lederer, D.L.Domingue, F. Vilas, M. Abe, T.L. Farnham, K. S. Jarvis, S. C. Lowry, Y. Ohba, P.R. Weissman, L. M. French, H. Fukai, S. Hasegawa, M. Ishiguro, S. M. Larson, and Y. Takagi. "Characterizaion of the Surface Properties of MUSES-C/Hayabusa Spacecraft Target Asteroid 25143 Itokawa (1998 SF36)." *Lun. Plan. Sci Abstracts XXXV*, 2058.
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### Contributed Papers and Abstracts, continued

- 2003 P.A. Abell, Y.R. Fernandez, P. Pravec, L.M. French, T.L. Farnham, M.J. Gaffey, P.S. Hardersen, P. Kusnirak, and Lenka Sarounova. "Physical Characteristics of Asteroid-Like Comet C/2001 OG108 (LONEOS)," *Lun. Plan. Sci Abstracts XXXIV*, 1253.
- 2003 Y.R. Fernandez, P.A. Abell, P. Pravec, L.M. French, T.L. Farnham, M.J. Gaffey, P.S. Hardersen, P. Kusnirak, L. Sarounova, S.S. Sheppard. "Physical Characteristics of the Asteroid-Like Nucleus of Comet LONEOS C/2001 OG108," *B.A.A.S.*, **35**, 47.04.
- S. M. Lederer, D. Domingue, F. Vilas, M. Abe, T. Farnham, L. M. French, M. Ishiguro, K. S. Jarvis, S. Larson, S. Lawry, P. Massey, Y. Ohba, Y. Takagi, P. Weissman. "Surface Properties of Hayabusa (MUSES-C) spacecraft target 1998 SF36 (25143). *B.A.A.S.* **35**, 34.15.
- 2002 L.M. French. "Pre-Outburst BVRI Colors of High-Inclination Comet C/2001 OG108 (LONEOS)." *B.A.A.S.*, **34**, 868.
- S.M. Lederer, D. Domingue, K.S. Jarvis, S.M. Larson, F. Vilas, and L.M. French. "A Phase Angle Study of MUSES-C Target 25143 (1998 SF36). *Lun. Plan. Sci Abstracts XXXIII*, 1956.
- 2001 L.M. French. "What Makes a Science Course Introductory?" *B. A. A. S.*, **33**.
- S.L. Lederer, F. Vilas, K.S. Jarvis, and L.M. French. "Colors and Compositional Characteristics of Kuiper Belt Objects and Centaurs." *B. A. A. S.*, **33**, 1046.
- 1996 L.M. French. "An Astronomy Course for Preservice Elementary Teachers." in *Astronomy Education: Current Developments, Future Coordination* Astronomical Society of the Pacific Conference Series **89**, J.R. Percy, editor. Astronomical Society of the Pacific, San Francisco.
- 1995 L.M. French, D. Borkovitz, W. Burke, M. Iatridis, K. Worth, J. Winokur "Collaborative Projects in Science Education in the Boston Area." *B.A.A.S.*, **27**, 773.
- 1994 L.M. French. "Planetary Science and Astronomy in the Middle School Classroom" *Lunar and Planetary Science Conference Abstracts XXIV*.
- L.M. French, V.C. LoPresti and P. Papali. "Interdisciplinary Science in the Classroom." *B. A. A. S.*, **26**, 1208.
- 1993 L.M. French. "Hands On Astronomy for Middle School Girls." Proceedings of the conference "Women at Work: The Status of Women in Astronomy" Space Telescope Institute.

## Contributed Papers and Abstracts, continued

- 1992 L.M. French. "Combining Astronomical Research with Middle School Teaching." *The Announcer* **22**, 79.
- 1991 L.M. French. "Hands On Astronomy in the Middle and Secondary School" *B. A. A. S.*, **23**, 1190.
- 1989 E.M. Shoemaker, E. Bowell, S.J. Bus, L.M. French, K. Russell, and C. Shoemaker. "A Search for Trojan Asteroids in the L5 Region," In **Comets, Asteroids, Meteorites III**, proceedings of conference held in Uppsala, Sweden, June, 1989.
- 1987 L.M. French "1173 Anchises: A Dark Trojan Asteroid with No Opposition Effect." *B.A.A.S.*, **19**, 850.
- J.L. Elliot *et al.* "A Four Day Occultation by Uranus and its Rings." *B.A.A.S.*, **19**, 884
- 1986 L.M. French, *et al.* "Rotation Properties of Two L5 Trojan Asteroids." *B.A.A.S.*, **18**, 796.
- 1985 J.L. Elliot, L.M. French, *et al.*, "Companion to the Delta Ring of Uranus." *B.A.A.S.*, **17**, 718.
- L.M. French *et al.* "Photometry of Occultation Candidates for Uranus, Neptune, and Saturn." *B.A.A.S.*, **17**, 700.
- R.G. French, L.M. French, *et al.* "The 4 May and 24 May 1985 Occultations by the Uranian Rings," *B.A.A.S.*, **17**, 718.
- 1979 L.M. French and J.F. Veverka. "Are Asteroids Limb Darkened?" *B.A.A.S.*, **11**, 561.

## Teaching Experience

### Illinois Wesleyan University, 2002-present

Gateway Colloquium: "Search for Life in the Universe," "Contact: Human-Alien Encounters in Fiction and Popular Culture," "The Music of The Beatles"  
PHYS 105, "Physics I-Mechanics" (Physical Science Lab)  
PHYS 106, "Physics II-Electricity and Magnetism" (Physical Science Lab)  
PHYS 110, "Fundamental Astronomy" (Physical Science Lab)  
PHYS 210, "Conceptions of the Cosmos" (Intellectual Traditions)  
PHYS 310, "Introduction to Astrophysics" (Physics Major Elective)  
PHYS 370, "Techniques of Observational Astrophysics" (Physics Major Elective)  
OCS 225, "England and the Rise of Modern Science" (Intellectual Traditions)

## **Teaching Experience, continued**

### Wheelock College, 1992-2002

#### Introductory Astronomy

"The Solar System"

"Stars and Galaxies"

"Observing the Stars and Planets" (first-year seminar)

#### Introductory Physics

"Motion, Heat, and Energy"

"Women and Science"

"The Physical Universe"

#### Introductory Life Science

"The Living World"

#### Advanced Physical Science

"Observational Astrophysics"

"Vibrations and Waves"

"The Search for Life in the Universe"

Senior Seminar: "Waves and Periodic Phenomena"

#### Graduate Education

"Teaching and Learning in Science"--co-taught with education faculty.

#### Music History

"The Music of the Beatles"--co-taught with Leland Clarke, professor of music.

### The Park School, 1989-1992

Ninth grade biology, eighth grade physical science, and science for second grade.

### MIT, 1982-1988

"Observing the Stars and Planets" (hands-on seminar with small telescopes)

"Observational Techniques of Optical Astronomy" (advanced physics laboratory)

"Advanced Topics in Optical Astronomy"

Survey courses in astronomy.

### Bates College, 1981-82

Survey courses in physics, with laboratory.

Advanced courses in thermodynamics, nuclear physics, and history of science.

### Cornell University, 1974-77

Teaching assistant for general astronomy course taught by Carl Sagan.

## **Research Students**

### Illinois Wesleyan University

Tracie Crane, 2002-2003, engineer at NASA Huntsville

Gautham Narayan, 2003-2004, PhD in Astrophysics at Harvard (Honors thesis at IWU)

Shawn Oppegard, 2003-2004, PhD biomedical engineering at U of I Chicago

Nicholas Timme 2004-2005, finishing PhD in physics at Indiana

Rebecca Carlton 2005-2006, PhD candidate at Wisconsin

Kundan Chaudhary 2007-2008, PhD student at Wisconsin

Robert Zoeller 2008-2009, high school physics teaching

Derrick Rohl, 2010-2012, high school physics teaching

## **Research Students, continued**

### Illinois Wesleyan University, continued

Daniel La Rocca, 2011-engineering graduate student  
Chelsea Davitt, 2013-engineering graduate student  
Kyle Connour, 2013-choosing graduate school in astrophysics  
Jennifer Sieben, 2013-present

### Wheelock College

Three senior seminar projects using MicroObservatory to observe variable stars  
One research student, Fall 2001, asteroid studies at Lowell Observatory

### MIT

Twelve research students, including four senior theses in physics. Projects included astrometry of asteroids and spectroscopy and photometry of variable stars, planetary satellites, and asteroids.

## **Service to Illinois Wesleyan**

Athletic Director Search Committee, 2015  
Physics Department Chair, 2012-present  
Faculty Development Committee, 2004-2006 (Chair 2005-2006). 2010-2012 (Chair 2011-2012)  
Nominating Committee 2008-2009, Chair  
London Program Director 2007 and 2015  
John Wesley Powell Research Conference Committee, 2004-2007 (Chair 2006-2007)  
Study Abroad Committee 2010-2014  
First-Year Advisor and Gateway Colloquium Instructor, 2002-2010  
Admissions Committee, 2003-present  
Library Advisory Committee, 2003-2004

## **Honors from Illinois Wesleyan Students**

Tommy Award for Inspiring Student Athletes with highest GPA on their team  
2012--John Kosnitsky, men's basketball  
2014--James Connolly, men's soccer  
Faculty Coach of the Week 2002  
Nominated for Professor of the Year

## **Service to Wheelock College**

Faculty Senate, 1998-2001  
Research and Development Committee, 1994-1996; 2000-2001  
First-Year Advisor and First-Year Seminar Instructor, 1998-2001  
Founder, Wheelock Chapter of American Association of University Professors;  
(President 1998-1999)  
Personnel Policies Committee (Chair), 1996-1997