

## The Galileo Affair

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Office: 2302 HSS, East Wing / Hours: Friday 4:00-7:00 PM

**Grading:** This will be based on a final paper (70%) and class participation (30%), the latter including attendance and giving one or more of the reports, as detailed in the syllabus below.

**Readings:** Many or most of the readings below are optional. The only required readings or videos are indicated under each session by “read” or “watch”; readings or videos indicated as “suggested” or “background” are not required; those indicated as “reports” will only read by the person doing the relevant report.

**Class website:** <https://ted.ucsd.edu>

### **Readings (at UCSD Bookstore):**

Blackwell, Richard. 1991. *Galileo, Bellarmine, and the Bible*. University of Notre Dame Press.

Finocchiaro, Maurice, ed. 1989. *The Galileo Affair: A Documentary History*. University of California Press.

### **Readings (articles or selected chapters as pdfs on class website):**

Artigas, Mariano and Rafel Martinez and William Shea. 2005. “New Light on the Galileo Affair?” In McMullin 2005, 213-33.

Beretta, Francesco. 2005a. “The Documents of Galileo’s Trial: Recent Hypothesis and Historical Criticism.” In McMullin 2005, 191-212 .

Beretta, Francesco. 2005b. “Galileo, Urban VIII, and the Prosecution of Natural Philosophers.” In McMullin 2005, 234-61.

Biagioli, Mario. 1994. *Galileo, Courtier ...* University of Chicago Press.

Biagioli, Mario. 1996. “Playing with the Evidence.” *Early Science and Medicine*, 1/1: 70-105.

Blackwell, Richard. 1998. “Could There be Another Galileo Case?” In Machamer 1998, 348-66.

Blackwell, Richard. 2006. *Behind the Scenes at Galileo’s Trial*. University of Notre Dame Press.

Brewster, David. 1841. *The Martyrs of Science ...* Harper & Brothers.

Coyne, George. 2005. “The Church’s Most Recent Attempt to Dispel the Galileo Myth.” In McMullin 2005, 340-59.

Fantoli, Annibale. 2002. “Galileo and the Catholic Church” A Critique of the ‘Closure’ of the Galileo Commission’s Work.” Vatican Observatory Publications, Special Series. *Studi Galileiani*, 4/1: 1-35.

Fantoli, Annibale. 2005. “The Disputed Injunction and Its Role in Galileo’s Trial.” In McMullin 2005, 117-49.

Finocchiaro, Maurice. 2001. “Science, Religion, and the Historiography of the Galileo Affair: On the Undesirability of Oversimplification.” *Osiris*, 2<sup>nd</sup> series, 16: 114-32.

Finocchiaro, Maurice. 2005. *Retrying Galileo, 1633-1992*. University of Chicago Press.

Galluzzi, Paolo. 1998. “The Sepulchers of Galileo: The ‘Living’ Remains of a Hero of Science?” In Machamer 1998, 417-47.

John Paul, II, Pope. 1992. “Speech of His Holiness Pope John Paul II to the Pontifical Academy of Sciences, 31 October 1992.”

Kelter, Irving. 2005. “The Refusal to Accommodate: Jesuit Exegetes and the Copernican System.” In McMullin 2005, 38-53.

Langford, Jerome. 1976. *Galileo, Science and the Church*. University of Michigan Press.

- Lerner, Michel-Pierre. 2005. "The Heliocentric 'Heresy: From Suspicion to Condemnation.'" In McMullin 2005, 11-37.
- McMullin, Ernan. 2005a. "Galileo's Theological Venture." In McMullin 2005, 99-116.
- McMullin, Ernan. 2005b. "The Church's Ban on Copernicanism, 1616." In McMullin 2005, 150-90.
- Redondi, Pietro. 1987. *Galileo Heretic*. Princeton University Press.
- Segre, Michael. 1991. *In the Wake of Galileo*. Rutgers University Press
- Segre, Michael. 1998. "The Never-Ending Galileo Story." In Machamer, 1998, 388-416.
- Shank, Michael. 1994. "Galileo's Day in Court: Essay Review of Galileo, Courtier by Mario Biagioli." *Journal for the History of Astronomy*, 24: 236-243.
- Shank, Michael. 1996. "How Shall We Practice History?: The Case of Mario Biagioli's *Galileo Courtier*." *Early Science and Medicine*, 1/1: 106-50.
- Westman, Robert. 1986. "The Copernicans and the Churches." In Lindberg and Numbers 1986, 76-113.

**Videos (as mp4s on class website):**

- Galileo*. A Play by Bertolt Brecht. English Version by Charles Laughton. 1974.
- Galileo's Battle for the Heavens*. PBS Nova. 2002.
- Monkey Trial*. PBS American Experience (2002)
- The Starry Messenger*. Episode 6 in *The Ascent of Man* by Jacob Bronowski. 1973.
- The Trials of Oppenheimer*. PBS American Experience (2009).

**Readings (on reserve at Geisel Library):**

- Biagioli, Mario. 1994. *Galileo, Courtier* .... University of Chicago Press.
- Blackwell, Richard. 1991. *Galileo, Bellarmine, and the Bible*. University of Notre Dame Press.
- Blackwell, Richard. 2006. *Behind the Scenes at Galileo's Trial*. University of Notre Dame Press.
- Fantoli, Annibale. 2003. *Galileo: For Copernicanism and for the Church*. Studi Galileiani, 6.
- Finocchiaro, Maurice, ed. 1998. *The Galileo Affair: A Documentary History*. University of California Press.
- Finocchiaro, Maurice. 2005. *Retrying Galileo, 1633-1992*. University of Chicago Press.
- Langford, Jerome. 1976. *Galileo, Science and the Church*. University of Michigan Press.
- Lindberg, David and Ronald Numbers, eds. 1989. *God And Nature: Historical Essays on the Encounter Between Christianity*. University of California Press.
- Machamer, Peter, ed. 1998. *The Cambridge Companion to Galileo*. Cambridge University Press.
- McMullin, Ernan, ed. 2005. *The Church and Galileo*. University of Notre Dame Press.
- Redondi, Pietro. 1987. *Galileo Heretic*. Princeton University Press.

**Date / Session / Topic & Sources:**

April

**06 / 01 INTRODUCTION TO THE LIFE & TRIAL OF GALILEO**

Read: Finocchiaro, *Galileo Affair* (1989) pp. 1-43.

**13 / 02 OVERVIEW OF COPERNICANISM & THE LIFE & TRIAL OF GALILEO**

Watch: *Galileo's Battle* (2002). Read: Langford, *Galileo* (1976).

Background: Fantoli, *Galileo* (2003) intro & chaps. 1-2.

**20 / 03 GALILEO & COPERNICANISM, 1610-1615**

Read: Finocchiaro, *Galileo Affair* (1989), pp. 47-86; Blackwell, *Galileo* (1991), chaps. 1-2, + pp. 181-93, 203-16; Westman, "The Copernicans" (1986).

Suggested: Kelter, "The Refusal" (2005); Lerner, "The Heliocentric" (2005).

Reports: Galileo, *The Starry Messenger* (1610); "Foscarini's Letter" (1615).

27 / 04 **GALILEO, THE BIBLE & THE BAN ON COPERNICANISM, 1615-1616**

Read: Finocchiaro, *Galileo Affair* (1989), pp. 87-118, 134-53; Blackwell, *Galileo* (1991), chaps.3-4; McMullin, “The Church’s Ban” (2005b).

Suggested: McMullin, “Galileo’s Theological” (2005a); Fantoli “The Disputed” (2005).

Background: Fantoli, *Galileo* (2003) chap. 3.

Report: The Thirty Years’ War (1618-1648) & the Catholic Church.

May

04 / 05 **FROM THE BAN TO THE TRIAL, 1616-1633**

Read: Finocchiaro, *Galileo Affair* (1989), pp. 198-255; Blackwell, *Galileo* (1991) chap. 6.

Background: Fantoli, *Galileo* (2003) chaps. 4-5.

Reports: Galileo’s “Discourse on the Tides” (1616); “Galileo’s Reply to Ingoli” (1624); Galileo, *Dialogue on Two Chief World Systems* (1632); Copernicus & Jesuit Astronomy.

11 / 06 **DOCUMENTING THE TRIAL, 1633**

Read: Finocchiaro, *Galileo Affair* (1989), pp. 256- 93; Blackwell, *Galileo* (1991), chap. 5; Blackwell, *Behind Scenes* (2006).

Background: Fantoli, *Galileo* (2003) chap. 6.

Reports: Redondi, *Galileo Heretic* (1987); Biagioli, *Galileo, Courtier* (1984).

18 / 07 **INTERPRETATIONS OF THE TRIAL: REDONDI & BIAGIOLI**

Read: Redondi, *Galileo Heretic* (1987) pp. 3-27, 227-71, 333-35; Biagioli, *Galileo, Courtier* (1994).

Report: Redondi, *Galileo Heretic* (1987) pp. 272-332; Biagioli, “Playing” (1996); Shank, “Galileo’s” (1994) & “How Shall” (1996).

25 / 08 **THE TRIAL OF GALILEO IN MYTH & HISTORY, 1633-1900**

Read: Finocchiaro, *Retrying* (2005), pp. 1-125; Galluzzi, “The Sepulchers” (1998); Segre, “The Never-Ending” (1998); Brewster, *The Martyrs* (1841) pages TBA.

Background: Fantoli, *Galileo* (2003) chap. 7.

Reports: Galileo & the Trial in the 19<sup>th</sup> century; Brecht & his Galileos (1939-47); Bronowski & *The Ascent of Man* (1973).

June

01 / 09 **REASSESSING GALILEO & THE TRIAL (I), 1900-2012**

Watch: *Galileo* (1974); *The Starry Messenger* (1973).

Reports: *Monkey Trial* (2002); *The Trials of Oppenheimer* (2009).

08 / 10 **REASSESSING GALILEO & THE TRIAL (II), 1900-2012**

Watch: *Galileo’s Battle* (2002). Read: John Paul, II, “Speech” (1992); Blackwell, *Galileo* (1991) chap. 7; Finocchiaro, *Retrying* (2005), pp. 338-65; Finocchiaro, “Science, Religion” (2001).

Suggested: Artigas et al., “New Light” (2005); Beretta, “The Documents” (2005a); Beretta “Galileo, Urban VIII” (2005b); Coyne, “The Church’s” (2005); Fantoli, “Galileo” (2002).