

HISTORY 449
W 3:30pm-6:30 pm

UNIVERSITY OF PENNSYLVANIA
Fall, 2016

**GOD AND NATURE: READINGS ON THE ENCOUNTER BETWEEN
JEWISH THOUGHT AND EARLY MODERN SCIENCE**

INSTRUCTOR: David B. Ruderman **OFFICE HRS: M 3:30-4:30 pm;W 1:00-2:00**
OFFICE: 306b College Hall **Email: Ruderman@sas.upenn.edu**

SOME GENERAL WORKS ON THE SUBJECT:

- Y. Tzvi Langerman, "Jewish Science", Dictionary of the Middle Ages, 11:89-94**
Y. Tzvi Langerman, The Jews and the Sciences in the Middle Ages, 1999
A. Neher, "Copernicus in the Hebraic Literature from the Sixteenth to the Eighteenth Century," Journal History of Ideas 38 (1977): 211-26
A. Neher, Jewish Thought and the Scientific Revolution of the Sixteenth Century: David Gans (1541-1613) and His Times, 1986
H. Levine, "Paradise not Surrendered: Jewish Reactions to Copernicus and the Growth of Modern Science" in R.S. Cohen and M.W. Wartofsky, eds. Epistemology, Methodology, and the Social Sciences (Boston, 1983), pp. 203-25
H. Levine, "Science," in Contemporary Jewish Religious Thought, eds. A. Cohen and P. Mendes-Flohr, 1987, pp. 855-61
M. Panitz, "New Heavens and a New Earth: Seventeenth- to Nineteenth-Century Jewish Responses to the New Astronomy," Conservative Judaism, 40 (1987-88); 28-42
D. Ruderman, Kabbalah, Magic, and Science: The Cultural Universe of a Sixteenth-Century Jewish Physician, 1988
D. Ruderman, Science, Medicine, and Jewish Culture in Early Modern Europe, Spiegel Lectures in European Jewish History, 7, 1987
D. Ruderman, Jewish Thought and Scientific Discovery in Early Modern Europe, 1995, 2001
D. Ruderman, Jewish Enlightenment in an English Key: Anglo-Jewry's Construction of Modern Jewish Thought, 2000
D. Ruderman "Jewish Medicine and Science," in *The Encyclopedia of the Renaissance*, ed. P. Grendler, (1999), vol. 3, pp. 310-12.
D. Ruderman, "Judaism to 1750," in *The History of Science and Religion in the Western Tradition: An Encyclopedia*, eds. Garry Ferngren, Edward Larson, Darrel Amundsen, (2000), pp. 237-42.
N. Lamm, Torah U-Madda: The Encounter of Religious Learning and Worldly Knowledge, 1990
S. Rosenberg, Torah u-Madda be-Hagut ha-Yehudit ha-Hadasha, 1988
I. Robinson, et al., The Interaction of Scientific and Jewish Cultures in Modern Times, 1995
"Judaism and the Sciences," Science in Context, 10 (1997)
M. Goldish, Judaism in the Theology of Isaac Newton, 1998
N. Efron, "Rabbi David Ben Solomon Gans and the Controversy over Natural Science in Jewish Prague", Doctoral dissertation, Tel Aviv University, 1995

John Efron, Medicine and the German Jews, A History, 2001
Aleph, an annual on Judaism and science
Geoffrey Cantor, Quakers, Jews and Science: Religious Responses to Modernity and the Sciences in Britain, 1650-1900, 2005
Gli Ebrei e le Science=Micrologus IX (2001)
Geoffrey Cantor and Mark Swetlitz, Jewish Tradition and the Challenge of Darwinism, 2006
Noah Efron, Judaism and Science: An Historical Introduction, 2007
J.J. Schachter, ed. Judaism's Encounters with Other Cultures: Rejection or Integration?, 1997
Jeremy Brown, New Heavens and a New Earth: The Jewish Reception of Copernican Thought, 2013
Jonathan Ben-Dov and Seth L. Sanders, eds. Ancient Jewish Sciences and the History of Knowledge in Second Temple Literature, 2014

SOME GENERAL WORKS ON THE ENCOUNTER BETWEEN CHRISTIANITY AND EARLY MODERN SCIENCE:

P. Corsi and O. Weindling, eds., Information Sources in the History of Science and Medicine, 1983
G. Ferngren, ed. The History of Science and Religion in the Western Tradition, 2000
D. D. O'Conner and F. Oakley, eds., Creation: The Impact of an Idea, 1969
R. Hooykass, Religion and the Rise of Modern Science, 1972
E. Klaaren, Religious Origins of Modern Science, 1977
J. Dillenberger, Protestant Thought and Natural Science: A Historical Interpretation, 1960
R. Merton, Science, Technology, and Society in Seventeenth Century England, 1938, 1970
C. Webster, From Paracelsus to Newton: Magic and the Making of Modern Science, 1982
R. Westfall, Science and Religion in Seventeenth-Century England, 1958
D.C. Lindberg and R. L. Numbers, eds., God and Nature: Historical Essays on the Encounter between Christianity and Science, 1986
D. Lindberg, The Beginnings of Western Science, 1992
Amos Funkenstein, Theology and the Scientific Imagination from the Middle Ages to the Seventeenth Century, 1986
F. Yates, "The Hermetic Tradition in Renaissance Science," in Art, Science, and History in the Renaissance, ed. C. S. Singleton, 1976, pp. 255-74
B. Vickers, ed., Occult and Scientific Mentalities in the Renaissance, 1984
M. Hunter, Science and Society in Restoration England, 1981
M. C. Jacob, The Cultural Meaning of the Scientific Revolution, 1988
D. C. Lindberg & R. S. Westman, eds. Reappraisals of the Scientific Revolution, 1990
J. Brooke, Science and Religion: Some Historical Perspectives, 1991
J. Brooke and G. Cantor, Reconstructing Nature: The Engagement of Science and Religion, 1998
M. Feingold, ed., The New Science and Jesuit Science: Seventeenth Century Perspectives, 2003
R. Brooks, David Himrod, eds., Science and Religion in the English Speaking World, 1600-1727: A Bibliographical Guide to the Secondary Literature, 2001

R. Olson, Science and Religion, 1450-1900: From Copernicus to Darwin, 2004
E. Grant, Science and Religion, 400 b.c. to a.d. 1550: from Aristotle to Copernicus, 2004
J. Helm and A. Winkelmann, Religious Confessions and the Sciences in the Sixteenth Century, 2001
K.J. Howell, God's Two Books: Copernican Cosmology and Biblical Interpretation in Early Modern Science, 2002
B. T. Dobbs and M. Jacob, Newton and the Culture of Newtonianism, 1995
J. Jacobs, The Scientific Revolution: Aspirations and Achievements 1500-1700, 1998
K. Thomson, Before Darwin, Reconciling God and Nature, 2005
The History of Science and Religion in the Western Tradition: An Encyclopedia, eds. Garry Ferngren, Edward Larson, Darrel Amundsen, 2000
The Blackwell Companion to Science and Christianity, eds. J.B. Stump and Alan G. Padgett, 2012
Peter Harrison (ed.): The Cambridge Companion to Science and Religion, 2010
Mark Waddell, Jesuit Science and the End of Nature's Secrets, 2015
Heterodoxy in Early Modern Science and Religion, eds. John Brooke and Ian Maclean. 2005
Park, Katharine, Daston, Lorraine (eds.) The Cambridge History of Science Volume 3: Early Modern Europe. 2008

August 31: General Introduction to Course, Bibliographical Introduction, Course Objectives and Requirements

Sept. 7: Attitudes towards the Natural World in Rabbinic Judaism: The Status of Magic, Medicine, and 'Scientific Pursuits'

Required:

S. Lieberman, "The Natural Science of the Rabbis," in Hellenism in Jewish Palestine, 1950, 1962, pp. 180-93
J. Neusner, Why No Science in Judaism?, 1987 [also published in The Making of the Mind of Judaism: The Formative Age, 1987, pp. 139-60]
Sources on healing and magic in classical Judaism [handout]
J. B. Soloveitchik, Halachic Man, 1983, especially 5-8, 17-24
M. Fisch, Rational Rabbis: Science and Talmudic Culture, 1997, introduction
Annette Yoshiko Reed, "Was There a Science in Ancient Judaism? Historical and Cross-Cultural Perspectives," Studies in Religion/Sciences Religieuses 36 (2007): 461-96

Reference:

F. Rosner, ed. and trans., Julius Preuss' Biblical and Talmudic Medicine, 1978
J. David Bleich, Judaism and Healing: Halachic Perspectives, 1981
Y. Bazak, "The Laws of Magic and the Laws of Planting Gourds" [Hebrew] Bar Ilan University Annual, 6 [1968]: 156-66
J. N. Lightstone, The Commerce of the Sacred: Mediation of the Divine among Jews in the Greco-Roman Diaspora, 1984. pp. 17-56
Y. Cohen, Ha-Yahas le-Limudai Hol be-Yahadat, 1983

E. Urbach, *The Sages*, 1975, chaps. 6 and 9
 H. Friedenwald, *The Jews and Medicine*, 1944, I: 5-30
 Gen. 1:28, Ps. 19:2; Ps. 104:24, Isa 40:26; Amos 5:8; Job 38:41 etc. with medieval commentaries; Avot 3, 9, Midrash on Psalm 8:6
 M. Fisch, *Rational Rabbis: Science and Talmudic Culture*, 1997
 I. Leibowitz, *Judaism, Human Values and the Jewish State*, 1992, pp. 132-41
 Meir Bar Ilan, *Astrologia u-Madaim Aherim bein Yehudei Erez Yisrael bi-Tekufat ha-Helensitit-Romit veha-Bizantit*, 2010
 Annette Yoshiko Reed, "'Ancient Jewish Sciences' and the Historiography of Judaism," in Ben-Dov and Sanders, *Ancient Jewish Sciences*, 2014

Sept. 14: Medieval Jewish Approaches Toward Nature, Magic, and Science

Required:

Bahya ibn Pakuda, *Hovot ha-Levavot*, Sha'ar ha-Behinah, 1-3
 Langermann, "Jewish Science"
 Langermann, "Some Astrological Themes in the Thought of Abraham Ibn Ezra"
 Langermann, "Science and the Kuzari"
 Sources on Ha-Levi, Maimonides, Nahmanides on science [handout]
 S. Sela, "The Fuzzy Borders between Astronomy and Astrology in the Thought and Work of Three Twelfth-Century Jewish Intellectuals," *Aleph* 1 (2001): 59-100
 David Shyovitz "He Has Created a Remembrance of His Wonders: Medieval Ashkenazic Attitudes toward Science and the Natural World", [typescript]

Reference:

S.W. Baron, *A Social and Religious History of the Jews*, vol. 8, chaps. 35 and 36
 H.J. Zimmels, *Magicians, Theologians, and Doctors*, 1952
 A. Z. Schwarz, "The Letter of Abraham Bar Hiyyah Nasi [Hebrew]" in *Festschrift fuer Adolf Schwarz*, 1917, 24-36
 J. Trachtenberg, *Jewish Magic and Superstition*, 1939, chaps. 10, 12, 13, 16
 M. Idel, "Hermeticism and Judaism," in *Hermeticism and the Renaissance*, eds. A. Debus and I. Merkel, 1988
 M. Idel, "Jewish Magic from the Renaissance to Early Hasidism," in *Religion, Science, and Magic in Concert and in Conflict*, eds. J. Neusner, E. Frerichs, 1989
 A. Marx, "The Scientific Works of Some Outstanding Medieval Jewish Scholars" in *Essays and Studies in Memory of Linda R. Miller*, 1938, 117-170
 H.A. Wolfson, "The Classification of the Sciences in Medieval Jewish Philosophy," *Hebrew Union College Jubilee Volume*, 1925, pp. 215-63
 S. Goitein, "The Medical Profession in the Light of the Cairo Genizah Documents," *Hebrew Union College Annual*, 34, 1963, pp. 177-94
 I. Twersky, "Aspects of Maimonides' Epistemology: Halakhah and Science," *Festschrift in Honor of Marvin Fox*, no. 31
 D. Berger, "Miracles and the Natural Order in Nahmanides," in I. Twersky, ed. *R. Moses Nahmanides: Explorations in his Religious and Literary Virtuosity*, 1983

Y. Tsvi Langermann, "Acceptance and Devaluation: Nachmanides' Attitude Towards Science," Jewish Thought and Philosophy 1(1992): 223-245 [Also in The Jews and the Sciences in the Middle Ages, 223-245]
Joseph Shatzmiller, Jews, Medicine, and Medieval Society, 1994
D. C. Lindberg, ed. Science in the Middle Ages, 1978
N. G. Siraisi, Medieval and Early Renaissance Medicine, 1990
G. Freudenthal, "Science in the Medieval Jewish Culture of Southern France, History of Science, 1995
G. Freudenthal, Science in the Medieval Hebrew and Arabic traditions, 2005
S. Sela, Abraham ibn Ezra and the Rise of Medieval Hebrew Science, 2003 [See also Aleph 6 (2006) for more on Ibn Ezra and Science]
D. Schwartz, Kemirot, Segulot ve-Sikhletanut be-Hagut ha-Yehudit bema' ha-Beinayim, 2004.
F. Rosner, The Medical Legacy of Moses Maimonides, 1998
E. Karnarfogel, Peering through the Lattices: Mystical, Magical, and Pietistic Dimensions in the Tosafist Period, 2000
B. Goldstein, "Astronomy and the Jewish Community in Early Islam," Aleph 1(2001): 17-57
R. Cohen and H. Levine, eds., Maimonides and the Sciences, 2000
J. L. Mancha, "Levi ben Gerson's Astronomical Work: Chronology and Christian Context," Science in Context 10 (1997): 471-94
David Shyowitz, "He Has Created a Remembrance of His Wonders: Nature and Embodiment in the Thought of the Hasidei Ashkenaz," Ph.D. Dissertation, University of Pennsylvania, 2011 [book to be published, fall, 2016]
S. Harvey, Medieval Hebrew Encyclopedias of Science and Philosophy, 2000.

Sept. 21: Attitudes towards Scientific Activity among Eastern European Jews in the Sixteenth- and early Seventeenth- Centuries

Required:

Maharal of Prague, Sefer Be'er Hagolah (New York, 1969), 6th be'er, pp. 105-120; Netivot Olam, Netiv Ha-Torah, 14, 59-61
Moses Isserles, She'elot u-Teshuvot, no. 7, pp. 29-34 [ed. Asher Ziv, Jerusalem, 1970]
L. Kaplan, "R. Mordekhai Jaffe and the Evolution of Jewish Culture in Poland in the Sixteenth Century," in B. Cooperman, ed., Jewish Thought in the Sixteenth Century, 1983, pp. 266-82
D. Fishman, "Rabbi Moses Isserles and the Study of Science among Polish Rabbis" Science in Context 10 (1997): 571-88
E. Reiner, "The Attitude of Ashkenazic Society to the New Science of the Sixteenth Century," Science in Context 10 (1997): 589-604
Y. Tsvi Langermann, "The Astronomy of Rabbi Moses Isserles," in S. Unguru, ed., Physics, Cosmology and Astronomy 1300-1700, 1991, pp. 83-98

Reference:

Jonah Ben Sasson. *Mishnato ha-Iyunit shel ha-Rama* (Jerusalem, 1984)
Y. Elbaum, *Petihut ve-Histagrut: Ha-Yezirah ha-Ruhanit ha-Sifrutit be-Polin u-ve-Arzo Ashkenaz be-Shalhei Ha-Ma'ah ha-Shesh-Esreh*, 1990
F. Kleinberger, *Ha-Mahshavah ha-Pedagogit shel ha-Maharal mi-Prag*, 1962, pp.77-89, 145-55
Cambridge History of Poland
S. Fiszman, *The Polish Renaissance in its European Context*, 1988
O. D. Kulka, "The Historical Background of the National and Educational Teaching of the Maharal of Prague," *Zion* 50 (1985): 277-320
R. J. W. Evans, *Rudolf II and His World: A Study in Intellectual History 1576-1612*, 1973
Joseph Davis, "Ashkenazic Rationalism and Midrashic Natural History: Responses to the New Science in the Works of Rabbi Yom Tov Lipmann Heller (1678-1654)," *Science in Context* 10 (1997): 606-26
Joseph David, *Yom Tov Lipmann Heller: Portrait of a Seventeenth-Century Rabbi*, 2004
David Sorotzkin, "The Theology of the Different [Ha-Nivdal] The Maharal of Prague and the Emergence of Early Modern Jewish Orthodox Thought," *Kabbalah* 14 [2006]
David Sorotzkin, *Orthodoxia u-Mishtar Ha-Moderniyut*. 2011
Moshe Rosman, "Innovative Tradition: Jewish Culture in the Polish-Lithuanian Commonwealth," in David Biale, ed., *Cultures of the Jews* (New York, 2002), pp. 530-47

Sept. 28: The Image of the Rabbi-Doctor and its Cultural Impact on Italian Jewry from the Sixteenth to Eighteenth Centuries

Required:

Tuviah ha-Cohen, *Ma'aseh Tuviyah*, 1974, pp.14-21, 25-26, 82b
Belil Hamiz, *Venice, 1624* [printed in N.S. Leibowitz, *Seridim mi-Kitvei ha-Pilosof ha-Rofe ve-ha-Mekkubal R. Yosef Hamiz, 1937*, pp. 35-61]
David Provencal, "Proposal to Establish a Jewish College" in S. Assaf, *Toledot ha-Hinukh be-Yisrael*, 4 vols., 1939-43, II, pp.115-120
D. Ruderman, "The Impact of Science on Jewish Culture and Society in Venice [With Special Reference to Jewish Graduates of Padua's Medical School], in G. Cozzi, ed. *Gli Ebrei e Venezia*, 1987, pp.417-25 only [Reprinted in *Essential Papers on Jewish Culture in Renaissance and Baroque Italy*, 1992]
D. Ruderman, *Kabbalah, Magic, and Science*, pp. 59-73
G. Miletto, "The Teaching Program of David Ben Abraham and his Son Abraham Provenzali in its Historical-Cultural Context," in D. Ruderman and G. Veltri, *Cultural Intermediaries: Jewish Intellectuals in Early Modern Italy*, 2004, 127-48

Reference:

D. Carpi, "Jews with Doctoral Degrees in Medicine from the University of Padua in the 16th and Early 17th Centuries [Hebrew]," *Scritti in Memoria di Nathan Cassuto*, ed. D. Cassuto et al, 1986, pp. 62-91 [who cites the earlier works of Modena and Morpurgo, and Ceseracciu] [also republished in his *Be-Tarbut ha-Renesans u-vein Homot ha-Geto*, 1989]
M. Benayahu, "R. Abraham ha-Cohen of Zante and his Circle of Doctor Poets in Padua [Hebrew] *Hasifrut*, 1978, pp. 108-40

J. Bylebyl, "The School of Padua: Humanistic Medicine in the Sixteenth Century," in C. Webster, ed., *Health, Medicine, and Mortality in the Sixteenth Century*, 1979, pp. 335-70
D. Kaufmann, "Trois docteurs de Padoue," *Revue des etudes juives* 18 (1889): 293-98
Eleazer Gutwirth, "Language and Medicine in the Early Modern Ottoman Empire," in Jürgen Helm and Annette Winkelmann, eds., *Religious Confessions and the Sciences in the Sixteenth Century*, 2001, pp. 79-95

October 5: The Diffusion of Scientific Knowledge among Early Modern Jews: The Medical and Astronomical Handbooks and their Theological Justification

Required:

David Gans, *Nehmad ve-Naim*, Jesnitz, 1743, introduction, pp.7b-10a, 82b
Tobias ha-Cohen, *Ma'aseh Tuviyyah*, p. 24a, 41a-44b, 58a-59a, 70b-71b, 82b-83a, 93b-94a, 112b-113a [See EJ 5:692-93]
Yosef Shlomo Delmedigo, "Mikhtav Ahuz" in *Melo Chofnajim* of A. Geiger, 1840, pp. 1-28; *Sefer Elim*, 1864, pp. 4-5 [See EJ 5:1478-1481]
Y. Yerushami, *From Spanish Court to Italian Ghetto*, 1971, pp. 216-270
N. Efron, "Irenism and Natural Philosophy in Rudolfine Prague: The Case of David Gans," *Science in Context* 10 (1997): 627-50

Reference:

M. Breuer, "An Outline of R. David Gans' Image, the author of *Zemah David* (Hebrew)," *Bar Ilan Annual* 11 (1972-73): 92-118
N. Efron, "Astronomical Exegesis: An Early Modern Jewish Interpretation of the Heavens," *Osiris* 16 (2001) 72-87, 2001
Neher, *Jewish Thought and the Scientific Revolution*
G. Alter, "Two Renaissance Astronomers: David Gans and Joseph Delmedigo" *Rospravy Ceskoslovenske Akademie Ved Rocnik* 68 (1958), Rada MPV, Sesit II, 77pp.
Gad Freudenthal, "Georg Alter (1891-1972) on David Gans (1541-1613)." *Aleph* 11 (2011) 56-59, 2011
I. Barzilay, *Yosef Shlomo Delmedigo: Yashar of Candia, His Life, Works, and Times* (Leiden, 1974)
Y. Leibowitz, "Harveian Items in Hebrew Medicine", *Ha-Rofe Ha-Ivri* 2(1957): 134-38

October 12: No class

October 19: Jewish Preaching and the Language of Science: The Case of Azariah Figo

Required:

I. Barzilay, *Between Reason and Faith: Anti-Rationalism in Italian Jewish Thought 1250-1650*, 1967, pp. 192-209
Yerushalmi, From Spanish Court, pp. 373-75
Azariah Figo, *Binah le-Ittim*, (Lemberg, 1857), part I, derush 7 [sermon for Rosh ha-Shanah which falls on a Sabbath], pp. 21a-24a

Reference:

- I. Bettan, *Studies in Jewish Preaching*, 1939, pp. 227-72
I. Zinberg, *A History of Jewish Literature*, 1974, 4: 175-77
M. Saperstein, *Jewish Preaching: An Anthology 1200-1800*, 1989
D. Ruderman, ed., *Preachers of the Italian Ghetto*, 1992

**October 26: Kabbalah, Science and Skepticism: Modena on Kabbalah and Rationalism;
The Radical Skepticism of Simone Luzzatto**

Required:

- Ruderman, *Kabbalah, Magic, and Science*, pp. 103-163
Leone Modena, *Ari Nohem*, 1971, pp. 14-19, 52-54, 65, 77-81
B. Septimus, "Biblical Religion and Political Rationality in Simone Luzzatto, Maimonides and Spinoza," *Jewish Thought in the Seventeenth Century*, 1987, 399-433
Passages from Luzzatto's *Discorso*, especially c. 16, and Socrates [handout]
Y. Dweck, *The Scandal of Kabbalah*, 129-47

Reference:

- R. Popkin, *The History of Scepticism from Erasmus to Spinoza*, 1979
M. Idel, "Major Currents in Italian Kabbalah between 1560-1660", in *Italia Judaica*, 2, 1986, pp. 243-62 [Republished in Ruderman, *Essential Papers*]
D. Ruderman, "The Language of Science as the Language of Faith: An Aspect of Italian Jewish Thought in the Seventeenth- and Eighteenth Centuries," *Anniversary Volume in Honor of Shlomo Simonsohn*, 1992
D. Ruderman, "Philosophy, Kabbalah and Science in the Culture of the Italian Ghetto" *On the Debate Between Samson Morpurgo and Aviad Sar Shalom Basilea*, " *Jerusalem Studies in Jewish Thought*, 1993
A. Viterbo, "La 'mitsvah' di studiare le scienze nell'opera di Rav Simchah (Simone) Luzzatto," *Segulat Israel* 4 (1997): 54-67
A. Viterbo, "Socrate nel ghetto: lo scetticismo mascherato di Simone Luzzatto," *Studi Veneziani* 38 (1999): 79-128
G. Veltri, "The Last Will and Testament of Simone Luzzatto (1583?-1663) and the only known Manuscript of the 'Discorso' (1638) : Newly discovered manuscripts from the State Archive of Venice and the Marciana Library, Venice", *European Journal of Jewish Studies* 5(2011) 125-146
Y. Dweck, *The Scandal of Kabbalah : Leon Modena, Jewish Mysticism, Early Modern Venice*, 2011

November 2: On the Reliability of Contemporary Scientific Knowledge in Determining the Halakha: Isaac Lampronti and some of his Contemporaries

Required:

- Isaac Lampronti, *Pahad Yizhak*, s.v. Zedah, *Keliyot Yo'azot*, *Nital ha-Lev*, *Nikur*, *Kettoret*, *Talta Kanei Havu*

E. Dorff, "The Effects of Science on Jewish Law", *Conservative Judaism* 40 (1987-88): 52-60

Ruderman, *Jewish Thought and Scientific Discovery*, c. 9

Reference:

D. Margalit, *Hakhmei Yisrael Ke-Rofim*, 1962, pp. 152-174

Zimmels, *Magicians, Theologians, and Doctors*, pp. 8-22, 39-42, 75-76, 122-23

A. Shohat, *Im Hilufei ha-Tekufot*, 1960, chap. 10

D. Ruderman, "Contemporary Science and Jewish Law in the Eyes of Isaac Lampronti and Some of His Contemporaries," *Memorial Volume in Honor of Frank Talmage*, 1992

D. Malkiel, "Empiricism in Isaac lampronti's Pahad Yitzhak," *Materia Giudaica* 10,2 (2005) 341-351

D. Malkiel, *The Burden of the Past in the Eighteenth Century: Authority, Custom and Innovation in the Pahad Yitzhak*, *Jewish Law Annual* 16(2006): 93-132

Ira Robinson, "Halakha Adapts to Modern Technology in the Early Twentieth Century: Rabbis Yudel Rosenberg and Shlomo Zalman Auerbach on Electricity," *Journal of Modern Jewish Studies* 6 (2007) 41-50

Maoz Kahana, 1736, *מקורות הידע ותמורות הזמן: רפואה, הלכה ואלכימיה, המבורג-אלטונה*

B.T. Pesahim 94b, and see Neher, *Jewish Thought*, pp. 202-223

Responsa Isaac ben Sheshet Perfect [Ribash], no. 447

Jonathan Eybeschuetz, *Kereti u-Feleti on Yoreh De'ah*, no. 40

Jacob Emden, *Iggeret Bikkoret*, 115a-116b

Debra Glasberg Gail, Ph.D. Dissertation on *Lampronti and Science*, Columbia University, 2016

November 9: Science in the 18th Century: Newtonianism and Physico-Theology

Required:

David Nieto, *Ha-Kuzari ha-Sheni Hu Match Dan*, 1958, viku'ah 4, pp. 96-172

D. Ruderman, "Jewish Thought in Newtonian England: The Career and Writings of David Nieto," *Proceedings of American Academy of Jewish Research* 58 (1991-2): 191-217

Mordecai Gumpel Levison, *Shelosh Esre Yesodei Ha-Torah*, selections

D. Ruderman, *Jewish Enlightenment in an English Key: Anglo-Jewry's Construction of Modern Jewish Thought*, 2000, chap. 5

Reference:

I. Solomons, "David Nieto and Some of his Contemporaries," *Jewish Historical Society of England*, 12 (1931): 1-101

J. K. Petuchowski, *The Theology of David Nieto*, 1970, chaps. 1,2,4,8

M. Goldish, "Newtonian, Converso, and Deist: The Lives of Jacob (Henrique) de Castro Sarmiento," *Science in Context* 10 (1997): 651-676

M. Boas, "The Establishment of the Mechanical Philosophy," *Osiris* 10 (1952): 412-541

David Nieto, *Esh ha-Dat* (London, 1715)

David Nieto, *Della Divina Providencia* (London, 1704), including responsum of Zevi Ashkenazi

Alexander Barzel, "General Nature and Specific Nature: On the Identification of God and Nature in the Sermon of David Nieto"[Hebrew] Da'at 17(1986): 67-80

November 16-December: Explorations in the Sefer Ha-Brit of Pinhas Hurwitz

Required:

Pinhas Hurwitz, Sefer ha-Brit ha-Shalem (Jerusalem, 1990), pp. 4-24 [the two introductions], 247-53[small pox]; 322-24, 357-66 [on philosophy], 526-75 [ahavat reim]

R. Fontaine, "Love of One's Neighbour in Pinhas Hurwitz's "Sefer ha-Berit". Studies in Hebrew Literature and Jewish Culture (2007) 271-295

R. Fontaine, "Natural science in "Sefer ha-Berit" : Pinchas Hurwitz on Animals and Meteorological Phenomena. Sepharad in Ashkenaz (2007) 157-181

D. Ruderman, "Some Jewish Responses to Smallpox Prevention in the Late Eighteenth and Early Nineteenth Centuries: A New Perspective on the Modernization of European Jewry,"

Aleph, Historical Studies in Science and Judaism 2 (2002): 111-44

Reference:

Ira Robinson, "Kabbalah and Science in Sefer ha-Berit: A Modernization Strategy for Orthodox Jews," Modern Judaism 9 (1989): 275-88

Noah Rosenblum, The First Hebrew Encyclopedia, Its Author and its Evolution," {Hebrew} PAAJR 55 (1988): 15-65

David Ruderman, A Best-Selling Hebrew Book of the Modern Era: The Book of the Covenant of Pinhas Hurwitz and its Remarkable Legacy, 2014

December 8: Oral Presentations of Research Projects