

Earth & Planetary Sciences 450
Spring Quarter 2018
Advanced Topics: *Outer Solar System Satellites*

T, Th: 3:30-4:50 PM
Tech F380

Donna M. Jurdy donna@earth.northwestern.edu or d-jurdy@northwestern.edu
Office: Tech #F497; phone: (847) 491-7163; fax: (847) 491-8060
Office hours: T,Th,F 2-3PM

Class Website: <http://lunar.earth.northwestern.edu/courses/450>

Readings:

Voyager: Exploration, Space and the Third Great Age of Discovery,
Stephen J. Pyne, Penguin, 444pp. (paper), 2010.

Voyager's Grand Tour, Henry C. Dethloff Ronald Schorn
NASA, Smithsonian Books, 2003.

other books, also abstracts and journal articles

Grades will be assigned on basis of class participation and independent project,
seminar presentation and final paper.

Spring Quarter 2018 - Schedule

Date	Topic
April	
Th 5	Introduction, History, discovery; Voyager
Th 12	Voyager Mission
Th 19	Mapping satellites, Galileo & Cassini Ice, Guest Lecture, Prof. Emeritus Hans Weertman, NU
T 24 --	Cratering Orbits and tidal effects; Origin of satellites
May	
Th 3	Jupiter's Io, Europa and Ganymede, Callisto
Th 10	Saturn's Titan, Enceladus; satellites of Uranus and Neptune
Th 17	Pluto, Guest Lecture Teresa Wong, Ph.D. (NU, 2010), Muenster University
Th 24	Search for life: Europa, Titan, Enceladus, other?
Th 31	Presentations
June	
Th 7	Unanswered Questions Future Outer Solar System Missions
W-F 6-8	WCAS Reading Period
M-F 11-15	Exam Week, Papers Due