

Seq. No.	Who Presents	Num Pages	Length Minutes	Running Time	Topic
Monday September 12					
				11:00 AM	Classroom opens
	All	16			If not already done, review "Preparing for Programming" on your own
	Marc		10	11:55 AM	Welcome and Logistics
1	Chuck	5	5	12:05 PM	Welcome to the SPICE Tutorials
2	Chuck	32	45	12:10 PM	SPICE overview
3	Chuck	7	10	12:55 PM	Motivation for SPICE
4	Boris	13	20	1:05 PM	SPICE conventions
			60	1:25 PM	Lunch
5	Boris	28	35	2:25 PM	NAIF IDs and Names
6	Nat	24	40	3:00 PM	Fundamental concepts of observation geometry
7	Nat	29	40	3:40 PM	Intro to kernel files
8	Ed	22	30	4:20 PM	Intro to Toolkit: libraries, utilities, applications, documentation
9	Boris	7	10	4:50 PM	Comments (meta-data) in SPICE kernels
10	Ed	8	15	5:00 PM	Using Module Headers
	Boris		10	5:15 PM	Brief demo of navigating Toolkit documentation
			25	5:25 PM	Lesson #1 Navigating through the SPICE components
			25	5:50 PM	Lesson #2 Practice building a program: call TK_Version
				6:15 PM	End of class
				6:30 PM	Bus back to hotel
Tuesday September 13					
				9:15 AM	Classroom opens
11	Ed	7	15	9:45 AM	Time: systems, formats and conversions
12	Boris	18	25	10:00 AM	LSK and SCLK (Leapseconds and Spacecraft Clock kernels)
			0	10:25 AM	Starting the Remote Sensing Lesson: 5 parts
			25	10:25 AM	Lesson #3 Remote Sensing: time conversions
13	Nat	43	60	10:50 AM	SPK (Ephemeris information)
			60	11:50 AM	Lesson #4 Remote Sensing: obtaining target states and positions
14	Nat	30	40	12:50 PM	Reference Frames and Coordinate Systems in the SPICE Context
			60	1:30 PM	Lunch
15	Ed	13	20	2:30 PM	PcK (Planetary constants)
16	Boris	18	25	2:50 PM	CK (Orientation information)
17	Boris	16	25	3:15 PM	FK (Reference frames information)
18	Boris	8	15	3:40 PM	Using the frames kernel in conjunction with other kernels
			60	3:55 PM	Lesson #5 Remote Sensing: spacecraft orientation and reference frames
19	Ed	15	25	4:55 PM	Computing derived quantities
			55	5:20 PM	Lesson #6 Remote Sensing: computing sub-s/c and sub-solar points
				6:15 PM	End of class
				6:30 PM	Bus back to hotel

Seq.	Who	Num	Length	Running	Topic
No.	Presents	Pages	Minutes	Time	
Wednesday September 14					
				9:15 AM	Classroom opens
20	Boris	26	35	9:45 AM	An introduction to WebGeocalc
	Boris		35	10:20 AM	Webgeocalc demo
21	Boris	14	20	10:55 AM	IK (Instrument information)
22	Boris	2	5	11:15 AM	Reading FKs and Iks
			60	11:20 AM	Lesson #7 Remote Sensing: intersecting vectors with a triaxial ellipsoid and computing illumination angles
23	Ed	33	40	12:20 PM	Geometry Finder Subsystem Overview
24	Boris	12	15	1:00 PM	The NAIF Server and Horizons Server
25	Marc	8	15	1:15 PM	The ESAC SPICE Server
			60	1:30 PM	Lunch
26	Boris	36	45	2:30 PM	Toolkit apps: chronos, spkmerge, mkspk, etc.
27	Ed	17	25	3:15 PM	Non-toolkit apps (those not in generic Toolkits)
			60	3:40 PM	Lesson #8 Practice using some toolkit apps: e.g. chronos, commnt, spkdiff, ckbrief,
28	Nat	7	10	4:40 PM	Exception handling
29	Ed	6	10	4:50 PM	Common Problems - An intro
30	Boris	9	15	5:00 PM	Porting Kernels
31	Nat	33	45	5:15 PM	DSK (Digital Shape Kernel)
32	Boris	10	15	6:00 PM	Summary of Key Points (Getting Started)
				6:15 PM	End of class
				6:30 PM	Bus back to hotel
Thursday September 15					
				9:15 AM	Classroom opens
	Boris		50	9:45 AM	Cosmographia demo
33	Boris	51	65	10:35 AM	Dynamic frames: how to define many kinds of reference frames
34	Nat	26	40	11:40 AM	Lunar/earth binary PCK and FKs
35	Chuck	6	20	12:20 PM	SPICE development plans
36	Marc	10	15	1:00 PM	SPICE for ESA planetary missions
	All		20	12:40 PM	Summary and class feedback
				1:15 PM	End of class; lunch
				2:30 PM	Bus back to hotel
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Optional by students during free time or after the class					
					"Event finding" lesson
					"Other Stuff" lesson
					"Binary PCK" lesson
					"In-situ" lesson
Backup tutorials: included in package but not presented					
B01		10			Installing the Toolkit
B02		16			Preparing for Programming
B03		15			IDL interface to CSPICE
B04		14			Matlab interface to CSPICE
B05		22			Matlab programming example
B06		24			IDL programming example
B07		26			C programming example
B08		26			Fortran programming example
B09		22			Other useful SPICELIB/CSPICE functions
B10		9			E-Kernel Overview
B11		44			Making an SPK file
B12		28			Making a CK file
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