## Nuclear Physics, the Core of Matter, the Fuel of Stars

## A symposium surveying the future of nuclear physics and celebrating 50 years of John Schiffer's research at Argonne

## September 20-22, 2006

## September 20, 2006 - Wednesday

12:30

Adjourn

Bus service to the Hotel if necessary

September 20, 2000 - Wednesday	
19:30-21:00	Reception at the Argonne Guest House
10.00 21.00	Bus service from the Hotel at 19:15 and 20:00
	Return bus service from the Guest House to the Hotel at 20:30 and 21:00
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September 21, 2006 – Thursday – Building 203 Auditorium	
08:00-09:00	Registration & Coffee
	Bus service from the Hotel at 8:00 and 8:30
Session 1:	(Rolf Siemssen – Chair)
09:00-09:15	Al Sattelberger, Don Geesaman: Welcome & Introduction
09:15-09:50	Ben Mottelson: The basis for independent particle motion in atomic nuclei revisited
09:50-10:00	Discussion
10:00-10:30	Coffee Break
Session 2:	(Rick Casten – Chair)
10:30-11:05	Takaharu Otsuka: Structure of exotic nuclei and the nuclear force
11:05-11:15	Discussion
11:15-11:50	Augusto Macchiavelli: Transfer reactions and nuclear structure: The road ahead
11:50-12:00	Discussion
12:00-12:35	Franco Iachello: Nuclei: A testing ground for fundamental tests in physics
12:35-12:45	Discussion
Session 3:	(Linwood Lee – Chair)
14:00-14:35	Stuart Freedman: "I am not very happy about this" and the search for exotica in science
14:35-14:45	Discussion
14:45-15:20	Osvaldo Civitarese: A critical review and the future of double-beta decay theoretical studies
15:20-15:30	Discussion
15:30-16:00	Coffee Break
<u>Session 4:</u> 16:00-16:35	(Jerry Draayer – Chair)  Zheng-Tian Lu: Helium: probing the exotic and searching for the strange
16:35-16:45	Discussion
16:45-17:20	Gordon Cates: Nuclear matter and electromagnetic probes in the 21st century
17:20-17:30	Discussion
18:30	Banquet at the Argonne Guest House Bus service from the Hotel at 18:00
	Bus from the conference site at 18:15
September 22, 2006 – Friday – Building 203 Auditorium	
Session 5:	(Peter Bond – Chair)
<u> </u>	Bus service from the Hotel at 8:15
09:00-09:35	William Zajc: New dimensions in relativistic heavy-ion collisions
09:35-09:45	Discussion
09:45-10:20	Walter Henning: The landscape of nuclei: How far, how soon?
10:20-10:30	Discussion
10:30-11:00	Coffee Break
Session 6:	(Sam Austin – Chair)
11:00-11:35	Michael Turner: Nuclear astrophysics: From the beginning of time until the end of the Universe
11:35-11:45	Discussion
11:45-12:15	John Schiffer: Perspectives
11.40-12.10	A diagram