

Joint NSF-MARGINS and IFREE Workshop:

Subduction Factory Studies in the Izu-Bonin-Mariana Arc System: Results and Future Plans

**November 7-10, 2007
Leahi Ballroom, Waikiki Beach Marriott
Honolulu, Hawaii**

Tuesday, Nov. 6 Registration 6-9pm

Wednesday, Nov. 7

7:00 am	Registration	
7:00 am	Breakfast (Leahi Ballroom)	
8:30 am	Welcome, MARGINS & IFREE background	Abers & Tatsumi
8:45 am	NSF perspective	Midson
9:00 am	Intro & Overview of Questions/Goals	Stern
9:15 am	History of the arc (moderator – Stern)	
9:15	Evolution and Dynamics of the Western Pacific and Izu-Bonin-Mariana subduction	Gurnis
9:45	Evolution of the Shikoku-Parece Vela backarc basins	Ohara
10:15	Discussion	
10:30 –11:00	Coffee break	
11:00	Geodynamical Modeling (moderator - Wiens)	
11:00	Temperature structure of the Mariana system from geodynamical modeling	Conder
11:30	Modeling the mantle flow pattern in the Mariana Arc	van Keken
12:00	Coupling of Mantle Flow and Thermodynamics: Implications for Melting in the Wedge	Baker
12:30	Discussion	
1:00 – 2:30	Lunch (Oahu Room)	
2:30	Inputs and volatile cycling (moderator - Tatsumi)	
2:30	Slab Inputs and Volcanic Outputs at the IBM Subduction Factory	Kelley

3:00	Volatiles in IBM arc magmas: new insights from melt inclusion studies	Shaw
3:30 – 4:00	Coffee Break	
4:00	Sulfur deposits, high volatile content, and diffuse hydrothermal venting styles dominate volcanic arc hydrothermal systems	Butterfield
4:30	Serpentinite Seamounts in the IBM system	Fryer
5:00	Discussion	
6:00 – 8:00	Reception & Posters	
8:00	Dinner on your own	

Saturday, Nov 10

7:00- 8:30 **Breakfast (Leahi Ballroom)**

8:30 **Presentation of breakout results**

9:00 **Discussion**

10:00 **Coffee break**

10:30 **Future of Margins and Subfac (Abers)**

12:30 **Conclusions and wrapup**

Stern

1-2:30 **Lunch on your own**

2:30- 3:30 **Post-event meeting for the people interested in the Educational
Mini-Lessons**

2:30 – 7 **Organizing committee stays for writing**