

Workshop Nördlingen 2010
Geological excursion through the Ries impact crater on June 27, 2010
“On the track of the Apollo 14 and 17 astronauts of August 1970”
Excursion leaders: Dieter Stöffler, Sabine Heuschkel, Thomas Kenkmann,
Jean Pohl, and Gisela Pösges

Time	Excursion Route and Outcrops	Topic
09:00	Visit of the Ries Crater Museum Nördlingen	Introduction into the impact geology of the Ries crater
10:30	Departure of busses from Hotel Klösterle and trip to Harburg	
10:45	Outcrop 1: Quarry of the Märker Cement Factory at Harburg	Allochthonous and parautochthonous megablocks covered by polymict breccias (“Bunte Breccia”) at the crater rim
11:45	Trip across the crater via Wemding to Otting	
12:00	Outcrop 2: Suevite quarry of Otting	Suevite and the principle of progressive impact metamorphism of crystalline rocks
12:45	Celebration and lunch break at the community of Otting	Celebration at the coesite discovery (July 1960) site organized by the Otting community and the Märker cement factory at Harburg
14:15	Trip to Gundelsheim	
14:30	Outcrop 3: Quarry of the Gundelsheimer Marmorwerke (Solnhofener Portland Cement Production Company)	Ejecta blanket (“Bunte Breccia“) on top of autochthonous Malmian limestone
15:15	Trip to Polsingen	
15:35	Outcrop 4: Old quarry at Polsingen	Clast-rich impact melt rock
16:00	Trip via Hainsfarth to Aumühle	
16:15	Outcrop 5: Suevite quarry at Aumühle	Suevite and contact to underlying polymict breccia (“Bunte Breccia”)
17:00	Trip via Oettingen to Lehberg near Unterwilflingen	
17:15	Outcrop 6: Old quarry at Lehberg	Allochthonous megablock of crystalline basement rocks intersected by suevite dikes and overlain by Bunte Breccia
18:00	Trip to Wallerstein	
18:15	Outcrop 7 and overlook of the Ries crater: Wallerstein cliff	Post-impact freshwater limestone of the Ries lake on top of uplifted basement of the inner ring
18:45	Trip to Nördlingen	
19:00	Arrival at Nördlingen	

Note: An illustrated field guide will be available at the conference