## Quantum Computing: Beginnings to Current Frontiers

Symposium in honor of Paul Benioff's contribution to Quantum Computing

26–27 May 2016, Argonne National Laboratory

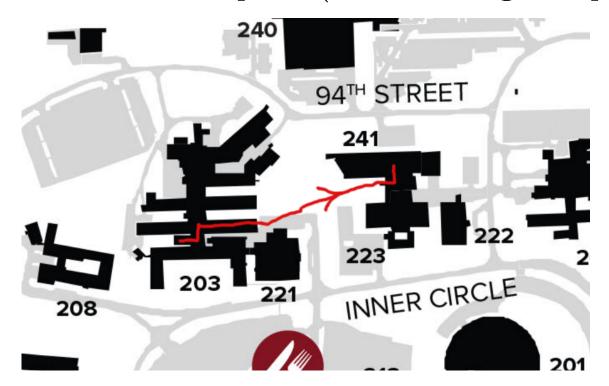
Thursda	y	Loca	tion: PHY Auditorium (Bld. 203)
08:30-09:30	Coffee & Registration		
09:30-09:40	Welcome: Peter Littlewood		
Chair: Rick	Stevens		
09:40-10:40	Boltzmann's brain and Wigner'	s friend	Charles Bennett (IBM)
Chair: John	Schiffer		
10:40 – 11:30	Glimpses of Practical Metrology		phy, and Imperfect Boson Sampling Carlton Caves (The University of New Mexico)
11:30-11:45	Symposium photo		
11:45-13:00	Lunch		
Chair: Supra	atik Guha		
13:00 – 13:50	Quantum Error Correction: Dro	~	RWTH Aachen and Forschungszentrum Jülich)
13:50 – 14:40	Quantum error detection, high-fithe web!	delity controls, and $\epsilon$	experiencing other things quantum, from Jerry Chow (IBM)
14:40 – 15:10	Coffee		
Chair: Mich	ael Norman		
15:10-16:00	Superconducting qubits for quantum information Andrew Cleland (The University of Chicago)		
16:00 – 17:00	QI primitives for quantum-limit		ational Institute of Standards and Technology)
17:15 – 18:15	Reception (sign up required)		Location: Lobby Bld. 241 (second floor)
19:00 –	Symposium Dinner Loca	tion: La Dolce Vita, 107	Stephen St, Lemont (upstairs banquet room)
Friday		Loca	tion: PHY Auditorium (Bld. 203)
Chair: Wai-l	Kwong Kwok		
09:00-09:50	From Quantum Gates to Quant		n Individual Atoms uantum Institute and University of Maryland)
09:50-10:20	Coffee	` ` `	,
Chair: Salm	an Habib		
10:20-11:10	Software and Architectures for	Large-Scale Quantun	n Computing  Fred Chong (The University of Chicago)
11:10-12:00	Bits quantum, bits futurus	Seth	Lloyd (Massachusetts Institute of Technology)
Chair: Harry	y Weerts		

12:00-12:40 Quantum computing, the early days & Effect of scalar scaling field on physics, geometry

Paul Benioff (Argonne National Laboratory)

12:40 - **Close** 

## Directions to reception (must have signed up)



## Directions to symposium dinner

