



Rapid Prototyping Workshops

Dr. Paul Liu

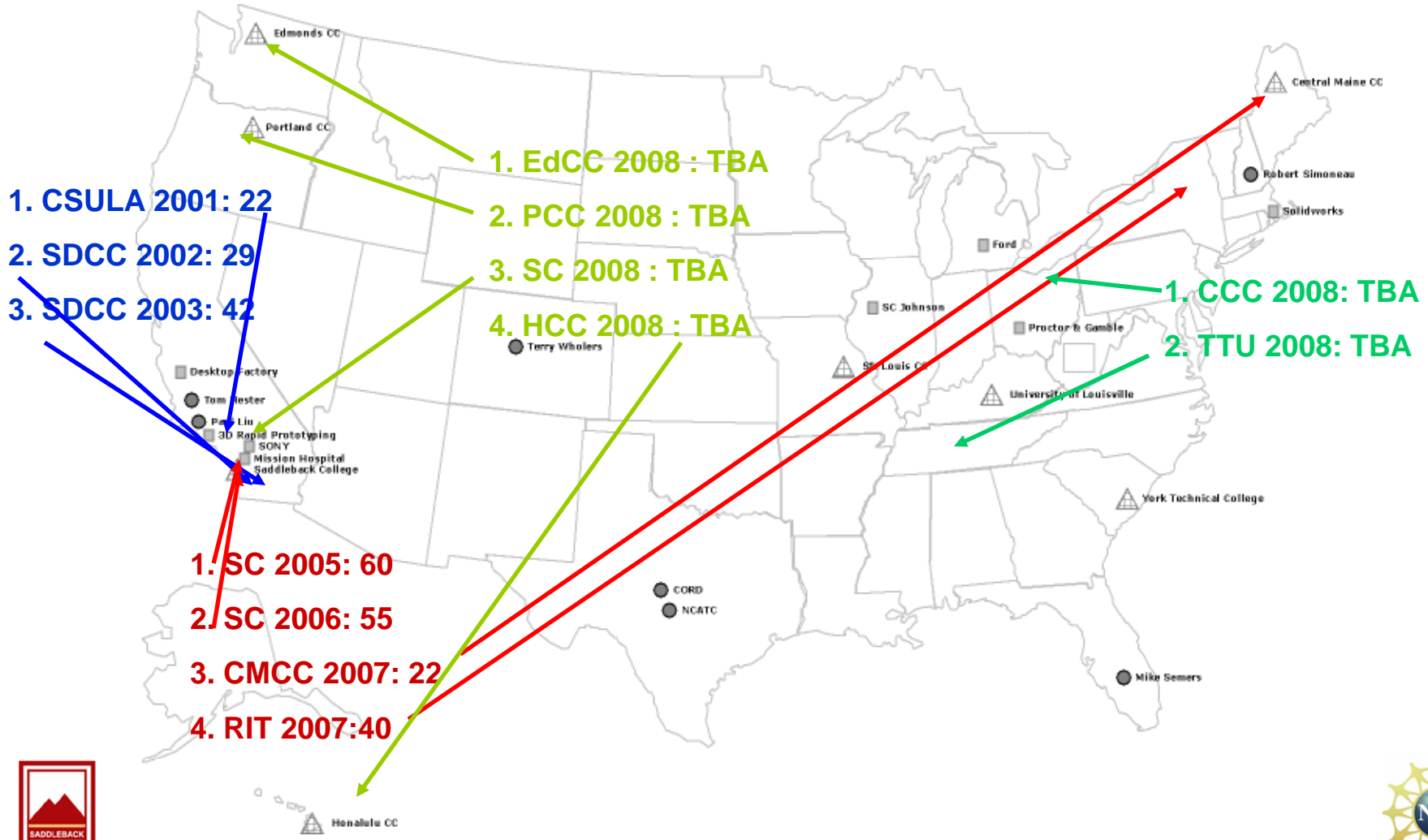
February 13, 2008





RapidTech

NATIONAL CENTER FOR RAPID TECHNOLOGIES





Questionnaires

	SA	A	U	D	SD
1. Overall, the workshop was a worthwhile, enjoyable experience.	93 %	7%			
2. The content of this workshop was appropriate.	73 %	13 %			
3. The workshop met my expectations.	75 %	25 %			
4. I learned new material at this workshop.	75 %	25 %			



SA: Strongly Agree; A: Agree; U: Undecided;

D: Disagree; SD: Strongly Disagree



	SA	A	U	D	SD
5. I plan to transfer this material into the classroom.	55 %	40 %	5%		
6. My experience in the curriculum development session of the workshop will help me transfer this material into the classroom.	57 %	37 %	6%		
7. Students will benefit from my experience in this workshop.	65 %	35 %			
8. The workshop facilitators were knowledgeable and effective.	83 %	17 %			

	SA	A	U	D	SD
9. The hands-on experiences were appropriate.	57 %	38 %	5%		
10. The information provided by vendors was helpful.	68 %	29 %	3%		
11. I made contacts at this workshop that I will benefit from in the future.	87 %	13 %			
12. I am more aware of grant opportunities at NSF as a result of this workshop.	47 %	39 %	8%	6%	



13. Estimated number of students to be impacted by this new material next academic year?

10—4%

20—22%

30-50—18%

40—10%

50—6%

60—10%

75-100—4%

100—10%

120—4%

200—4%

300—4%

1,000—4%





14. How did you learn about this workshop?

Website: 3

List serve: 0%

Conference: 18%

Others:

Internet: 3%

NCATC: 3%

Email: 13%

NSF Partner: 3%

Direct mailing: 3%

Colleagues: 54%





15. I have taught Rapid Prototyping in my institute as a class or module in

- Modules

Polymers/12

Architecture/300

CADD/60

Mfg Materials/20

Mechanical Drafting/12

Others: ?/60, ?/40-50, ?/100, ?/1,000, ?/25, ?/50

- Classes

?/10 ?/40





16. Please answer the following questions about the structure of the workshop.

- a. Should the days be longer? **Y: 8% N: 92%**
- b. Should the days be shorter? **Y: 13% N: 87%**
- c. Should the workshop be conducted over more days? **Y: 28% N: 72%**
- d. Should the workshop be conducted over fewer days? **Y: 6% N: 94%**
- e. Should the participants receive paid lodging? **Y: 92% N: 8%**





17. I have or plan to purchase (please indicate) the following Rapid Prototyping technologies:

RP Equipment:

ZCorp: 24% Contex: 10% Dimension: 16% Other FDM: 2%
DIM SST: 2% ProMetal RI: 4% ProMetal SR2: 2%
SLS: 2% RP Printer: 2% Invision: 8%

Software:

Magics Software: 4% Rhino: 2%
SolidWorks: 2% Raster/Scan Software: 2%

Other Equipment:

3D Scanner: 2% RP Scanner: 2% Laser Scanning: 2%
Laser Engraving: 4% Roland: 2% Vacuum forming: 2%
Desktop: 4%





18. Overall, what were the strengths of this workshop?

- The vast reservoir of expertise among the workshop facilitators. The ability to see so many examples of RP technology in action.
- Vendor presentations/hands-on labs/curriculum models and ideas.
- Openness of shared info; seminars.
- Variety of technologies presented; networking with peers; new ideas for programs generated by exposure to material; strength of people like Ed and Ken in what they do. It is a pleasure to work with pros!





18. Overall, what were the strengths of this workshop?

- I came here with no knowledge of the subject. I am leaving with some basic knowledge and an idea of what machine I should purchase as the first machine. I also have some basic subject matter to add to my classes.
- First hand examples, equipment, software, expertise—vendors, educator; hands-on workshops; working environment.
- The small groups have enabled connections far better than the SME-Rapid show.





18. Overall, what were the strengths of this workshop?

- Awareness of software requirements, implementation strategies, cautions with RP applications. Diversity of RP applications.
- Sharing best practices; identifying pitfalls/potholes. The application to industry—what works best where.
- The free exchange of information and resource materials. Having all the vendors in one location.
- Knowledge and ability to communicate the RP knowledge; experience in RP; vision and leadership skills of Ken Patton.





19. Overall, what were the areas that we could improve upon? How?

- The layout of the vendor presentations was tedious. If we could have alternative activities for those who have purchased the equipment being presented, that would be more effective. This could be followed by an update session where the vendors could briefly present the latest developments in their product line.
- Sound in presentation room(s)—everyone should be mic'd; distractions of food delivery, side conversations, etc.; should provide notebook and presentation materials at beginning—usually these things are provided to make knowledge transfer smoother.





19. Overall, what were the areas that we could improve upon? How?

- Need bigger shop.
- Some offerings should be longer than 50 mins.; some confusion over getting from one building to another; agenda needed ahead of time to plan trip.
- Have all the events in the same areas so that you can get from places to place faster.









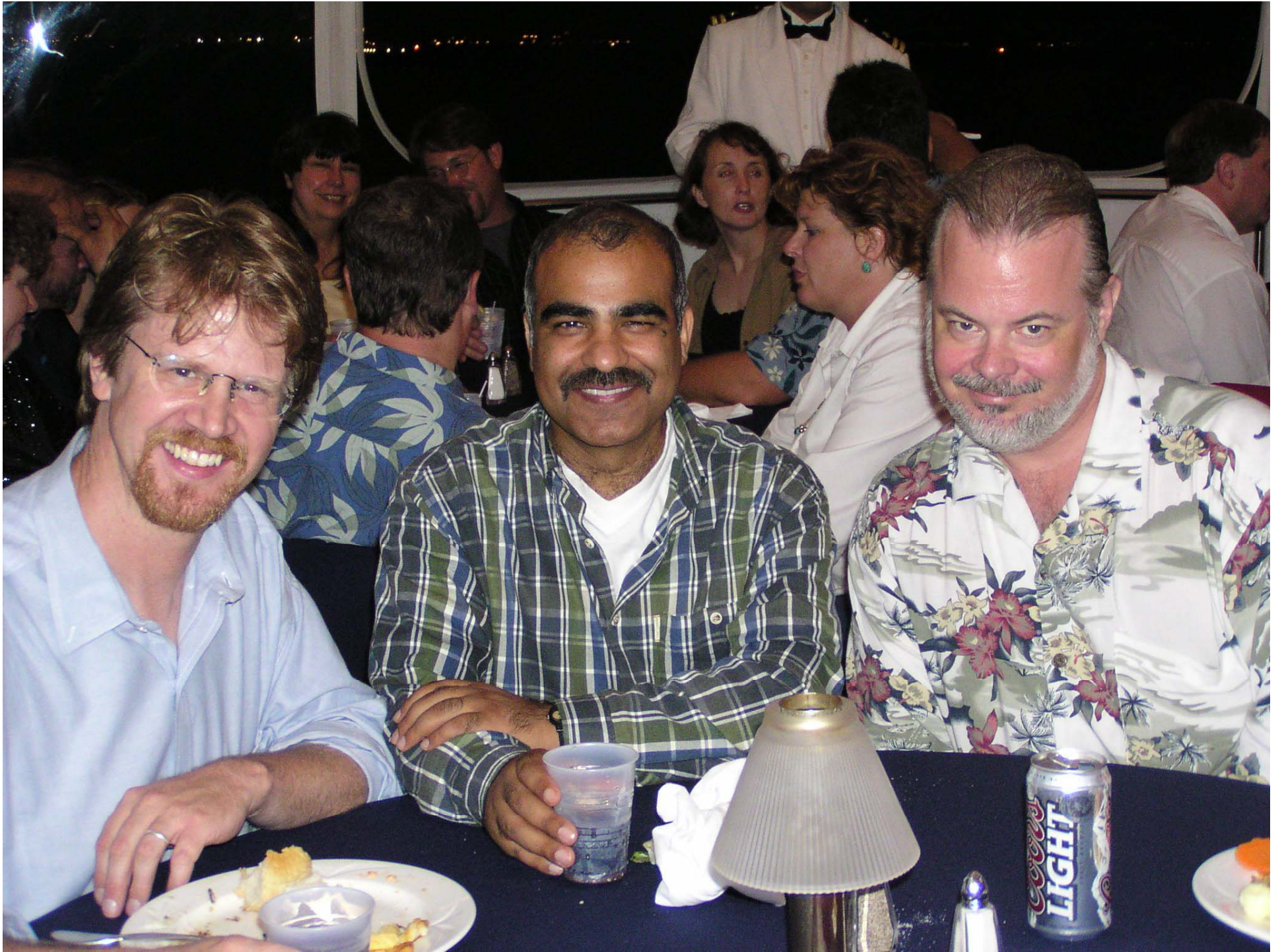














RapidTech

NATIONAL CENTER FOR RAPID TECHNOLOGIES



General George S. Patton

