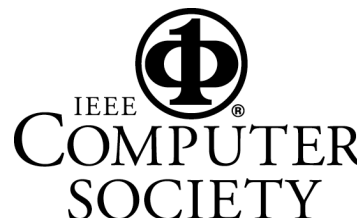**PRINCETON ACM / IEEE-CS CHAPTERS**
SUMMER 2012 SPECIAL EVENT

Mathematical Sculpture –
Theory and Practice

As a summer special event, Princeton ACM and IEEE Computer Society is sponsoring a "hands-on" event featuring the construction of simple geometric sculptures. Our presenter will be the artist George Hart, who will present and discuss examples of his mathematically informed sculptures. These sculptures generally apply computer technology in their design and/or fabrication.

The talk will present some of the mathematical and computer science aspects of these designs. The event will include several workshop activities: everyone will have an opportunity to build a geometric construction to take home. The speaker will also have other examples of his work on hand. These include works made of metal, wood, plastic, or found objects, and often use laser-cutting, plasma-cutting or 3D-printing technologies in their realization.

George W. Hart (**http://georgehart.com**) is a mathematician and sculptor. He helped found the Museum of Mathematics (http://momath.org, opening December 2012 in Manhattan) and helped design its initial set of exhibits. Hart was for ten years a research professor in the Computer Science department at Stony Brook University, NY. He holds a B.S. in Mathematics and a Ph.D. in Electrical Engineering and Computer Science, both from MIT. He is the author of a linear algebra monograph, *Multidimensional Analysis* (Springer Verlag, 1995) and a geometry text, *Zome Geometry* (coauthored with Henri Picciotto, Key Curriculum Press, 2001). Hart's research explores innovative ways to use computer technology in the design and fabrication of artwork. His sculpture has been exhibited around the world. He is also very active in developing novel hands-on workshops as ways to communicate the richness and excitement of mathematics.

Meeting Agenda:

> 6:00PM Gather for Pizza, Beverages, and to help construct a large sculpture
> 6:45-8:00PM Talk by George Hart plus Q&A
> 8:00-9:00PM Participants will build geometric sculptures out of playing cards (the cards will be provided, but you should bring a thin metal ruler or similar straightedge, to assist with some folding)

This is a family-friendly event, but minors must be accompanied by a responsible adult to ensure that they will be well-behaved (i.e. totally quiet during the lecture). No pre-registration is needed, though you should plan to arrive early if you would like some food!

Note: This special summer meeting is at a NEW LOCATION – Princeton Theological Seminary, Stuart Hall, Room 4.

Parking: There are 30-40 street parking spots on Alexander Road, Dickinson Street, and a few on College Road very close to Stuart Hall. Some are metered and some free. Meter-free street parking is on Alexander Road past Dickinson. There is also street parking on Library Place. Areas around the seminary library are under construction and its adjacent parking lot across Mercer Street is closed. Approximately 90 spaces are available on the backside of the library near Stockton (Rte 206).
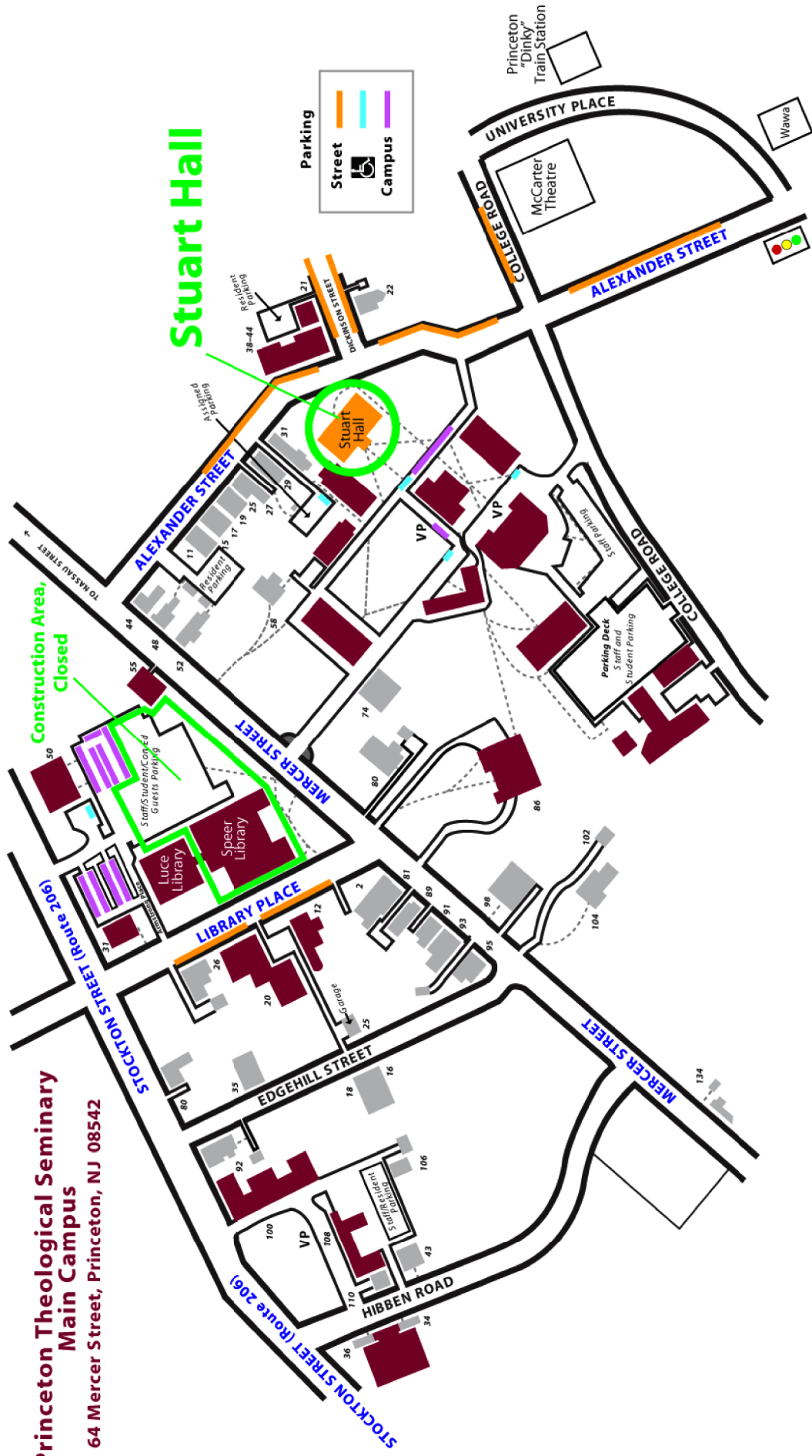
A detailed campus map showing the building location can be downloaded here:

http://www.pmug-nj.org/images/map_pts.gif

Date:	Monday, July 30, 2012, 6:00 - 9:00 pm.
	(Pizza and beverages starting at 6:00 pm, talk starts at 6:45)
Place:	Princeton Theological Seminary, Stuart Hall, Room 4
	Alexander & Dickinson Sts, 1 block south of Mercer St., Princeton, NJ
Information: Rebecca Mercuri (609) 587-1886; Dennis Mancl (908) 582-7086	
On-line info: **PrincetonACM.acm.org**	

All Princeton ACM / IEEE-CS meetings are open to the public. Students and their parents are welcome. There is no admission charge, and refreshments are served.

Princeton Theological Seminary
Main Campus
64 Mercer Street, Princeton, NJ 08542

Stuart Hall

Parking
- Street
- Campus

STOCKTON STREET (Route 206)

ALEXANDER STREET

MERCER STREET

LIBRARY PLACE

COLLEGE ROAD

UNIVERSITY PLACE

EDGEHILL STREET

HIBBEN ROAD

DICKINSON STREET

TO NASSAU STREET

Construction Area, Closed

Assigned Parking

Resident Parking

Staff/Student/Copied Guests Parking

Staff and Student Parking

Staff Parking

Staff/Resident Parking

Luce Library

Speer Library

Parking Deck
Staff and Student Parking

McCarter Theatre

Princeton "Dinky" Train Station

Wawa

Garage

Stuart Hall

VP

21   22   27   29   31   38-44

5   11   17   19   25   44   48   52   55   50   31

58   74   80   86   102   104   98   95   93   91   89   81   2   12   26   20   25   18   16

35   80   92   100   108   110   106   43   34   36   134