New Bridge Forms: Maillart and Menn

The hollow box arch after Salginatobel
Early Menn bridges and the influence of Maillart
Long span arches of Christian Menn
  prestressing and deck-stiffening
Menn and the long span, prestressed, hollow box girder
The Ganter Bridge, a new form
Menn’s cable-stayed bridges
Christian Menn
1927 -
(atop Valtschielbach!)
care to criticize?

Felsenau 1970
Ganter 1980
Menn’s continuing evolution in cable-stayed forms 1980’s-2000’s
La ingeniería es siempre creativa, porque si no lo es, no es ingeniería

- Leonardo Fernández Troyano
Final Project (UMass)

- To be done in pairs, self-selected
- Important dates:
  - Thursday April 10th: Groups finalized
  - Tuesday April 22th: Peer editing of thesis/outline
  - Tuesday April 22: Bibliography/outline/search results due
  - Tuesday April 29: Project presentations
  - Monday May 5: Final papers due
Midterm Survey Response Summary

Discussions
Organize around specific topics and use images

Too much focus on the engineer vs. the architect
More discussion!

Calculations
Mixed reviews on whether more time is needed
Not always clear what/why we are calculating
Questions sometimes not worded clearly
(3) It seems that the formulas are just given right at the end of class with little or no explanation
(3) Too much explanation, making the HW into busy-work

General
Prof. Arwade’s personal opinion seems too strong and blocks open discussion
Aesthetics are judged from a one-sided perspective. Anything other would be incorrect.

Why are we not being told the S’s and E’s anymore?

Provide a glossary of bridge and building vocabulary. More diagrams to explain the forces
Should go over concepts behind calculation assignments in class, before we see the pictures
Would like to see fewer structures and spend more time with each one

Not clear why the lectures are presented in the order they are
Lectures very fast! Hard to take notes.
It would be nice to make more use of calculations during MT lecture
Special Lecture
Four Towers: The Story of the Redevelopment of Times Square
Eli Gottlieb, Associate, Thornton-Tomasetti Engineers
Tuesday, 4:00-4:50, Maryland 110