iD@wentworth

The Industrial Design Program at Wentworth Institute of Technology, Boston, Massachusetts . . .

INDS 220 Industrial Design Studio I

Sophomores:

James Bishai Alessandro Bove Luis Caffas Owen Clisto Andrews Comessa Almee Deligen Anne Engström Entmanuel Espiratu Juan Flores Sem Gordon Amiley Grant Janel Gurney Erte Haskin John Hughes

Brian Jones John Placel
Ryan Kain Christopher Parow
Bryan Kneeland Michael Pelosi
Julie Kowal Scott Petrichico
Ross Mehaffey Parick Retantonio

Jan Pupecki Holly Reading Matthew Robles Randall Salso James Sandtford Brett Smith Siens, Tsodokov Eric Wallin Angels Welch james Zabata





NDS 220 Industrial Design Studio 1 Schedule for the 4th Assignment (30% of your final grade):

October 31st, Thursday: Introduction & The Next Industrial Revolution Video . . .

2nd Week

November 4th, Monday: Final Presentation for the 3rd Assignment

November 7th, Thursday: Work in class & discussion about anthropomorphism . . .

3rd Week

November 13th, Wednesday: Critique: Natural Phenomena shown in Metal (15%)

November 14th, Thursday: Introduction of the 2nd part of the Project

November 18th, Monday: Critique . . . Visiting the Junior's Outdoor Seating Presentation

November 21st, Thursday: Work in class . . .

5th Week

November 25th, Monday: Work in class . . .

November 21st, Thursday: no class . . . it's Thanksgiving

December 2nd, Monday: Critique: 2nd part of the Project (15%)

Designing Something That Works the Way Natural Systems Do

Phenomena in Nature: How does something grow? . . . How do natural systems grip or fold? . . . How does an organism open & close? How do things in the natural world connect? . . . How do things collapse?

Research: There are thousands of examples. Here are a few:

Ferns- unfold & Fractals - Leaves growing larger & camels-why do the back knees fold in the

the opposite direction of the front knees . . .

Armadillos- they have articulating shells & spiders - have folding Legs . . .

Lady bugs- have a hard shell that unfolds to reveal wings & duck feathers-

interlock to form a water-

resistant barrier

Mussels - have threads that attach them selves to rocks & vines-

have threads that grip bricks and rocks

look at: www.hoberman.com & look at: www.hypercar.com & everything by Buckminster Fuller & Frei Otto . . .

Russian Matryoshka Dolls & onions ... Umbrellas & sails & parachutes ... Bellows, as in the Polaroid Land Camera/SX70

look at: Skin...Substance, Surface & Design

by Ellen Lupton & The Cooper-Hewitt Museum . . .

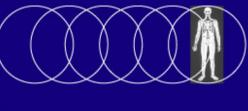
Ships by Thor Heyerdahl (Ra & the Kon tiki project)

Elephant truck waste removal at construction sites . . .

Factory garage doors by Calatrava & The Jean-Marc Tibaou

You will use sheet metal, shears, computers, & nuts and bolts & rivets to mimic the way nature works.

Culture Center in Noumea, New Caledonia (1992) by Renzo Piano . . .



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Create a container to hold 3 cans

of Canned Heat, otherwise known

as Sterno . . . This container will

transform into a portable cooking

device . . . It must be made entirely

of metal . . . It must have a way to

be self leveling . . . It must be able to

support a cooking vessel & at the

same time, protect the flame from

wind & loss of heat . . . It should be

self explanatory in terms of use &

assembly, which means it needs a

very clear visual logic . . . simple is,

4th Assignment, 2nd half (20% of your final Grade, the Biomimcry half was 10%)
Design a Portable Cooking Device . . .

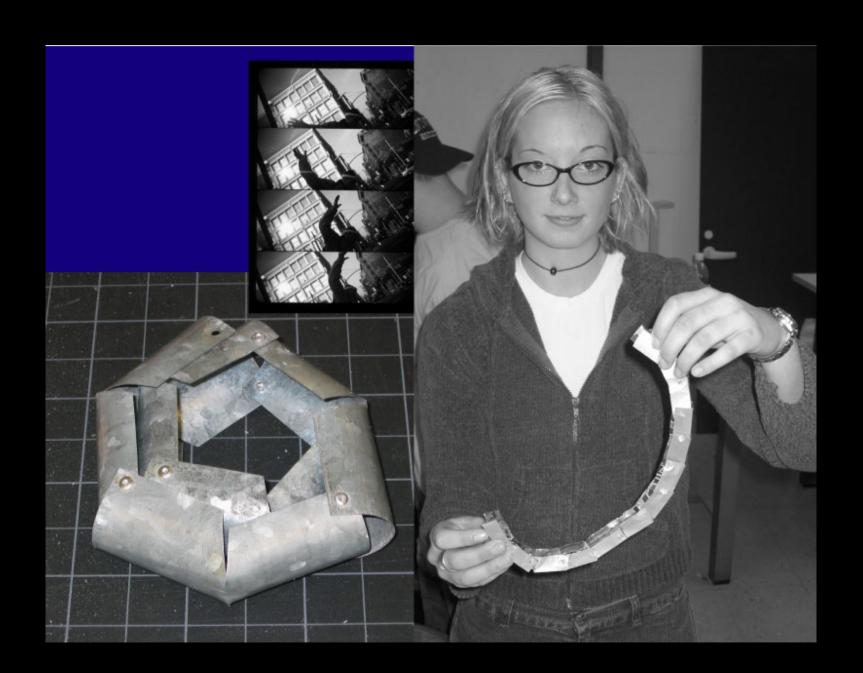


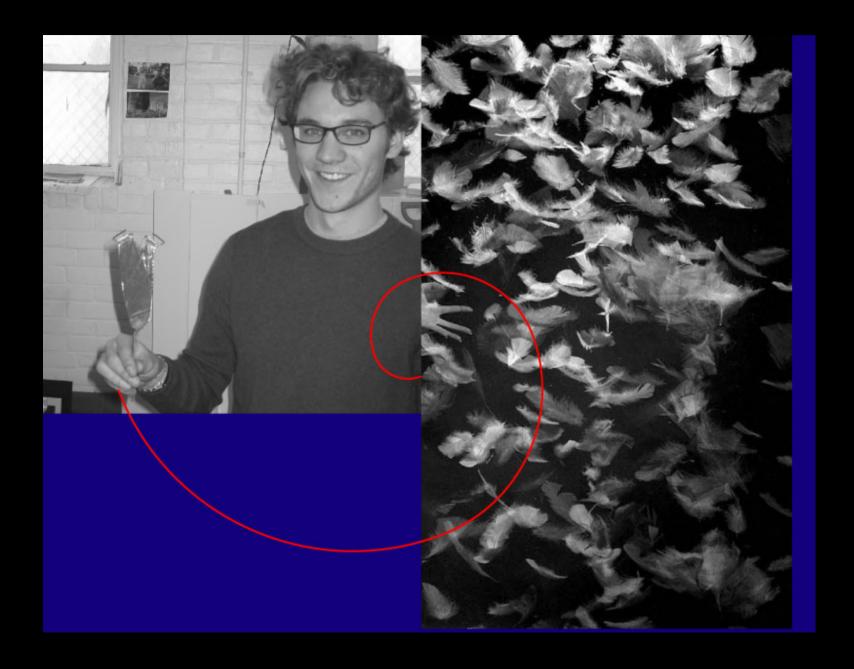


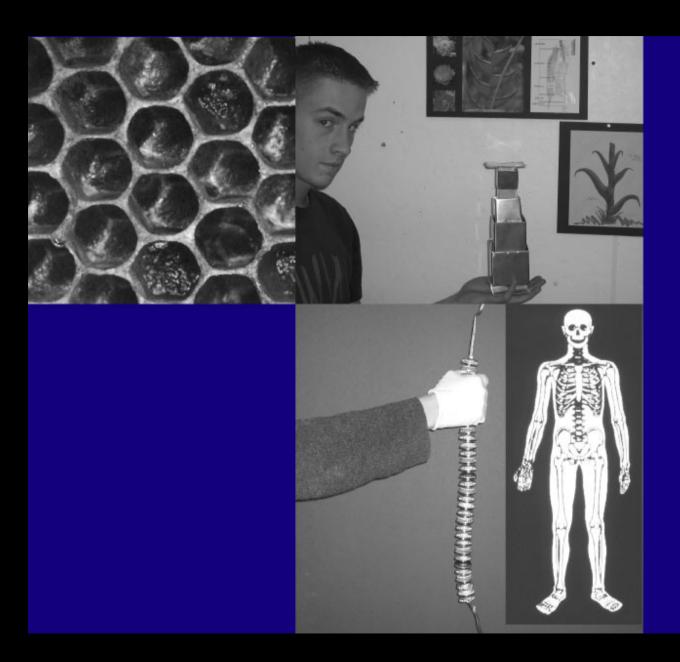


in this case good . . . minimum size & weight are also important . . . you must make all the components yourself . . . good luck & get cookin' . . .

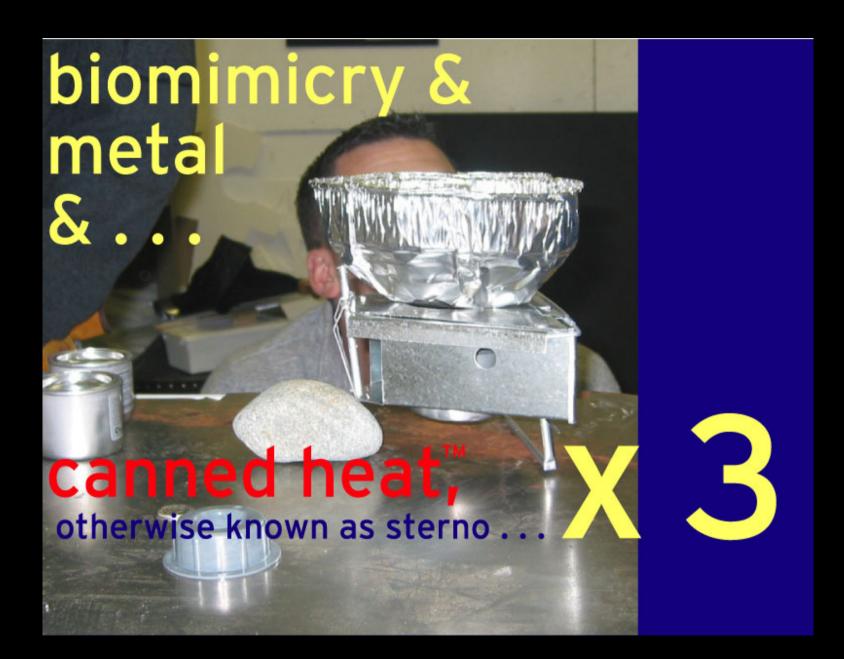
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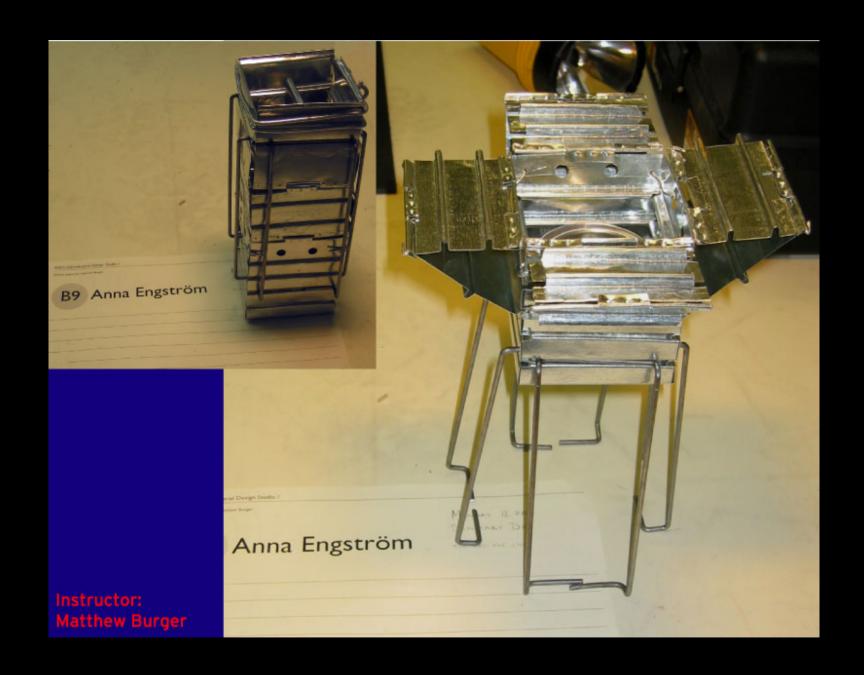




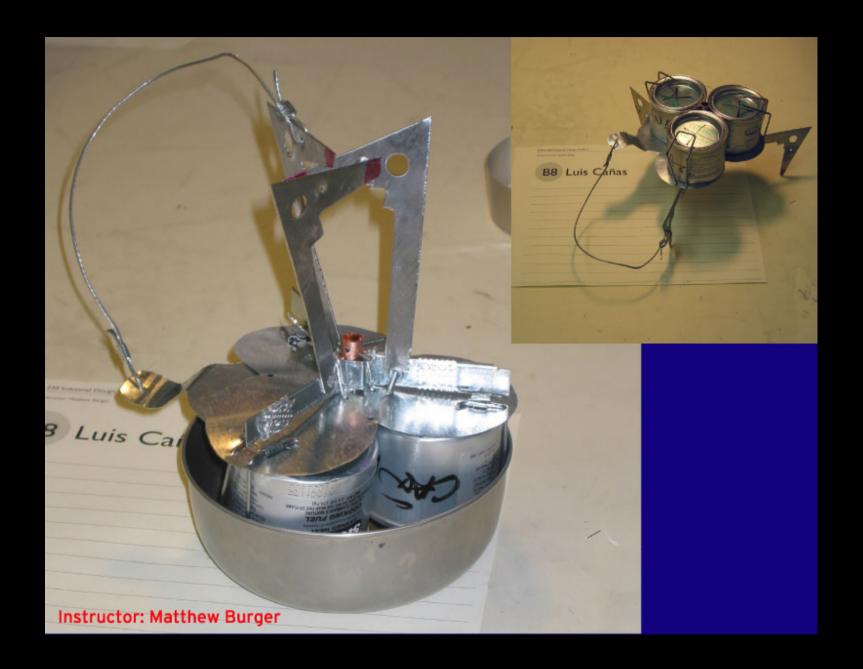






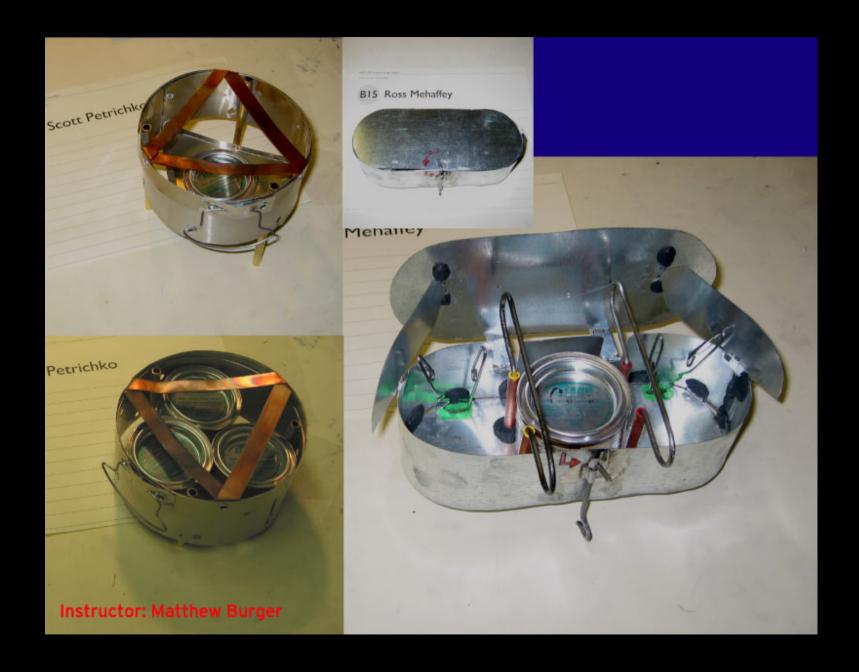








Instructor: Matthew Burger





iD@wentworth students in this presentation would like to thank you... Christopher Batten • Stephanie Bincarowsky • James Bishai • Alessandro Bove Luis Cañas • Owen Chan • Andrew Comeau • Aimee Deltgen • Anna Engström Emmanuel Espiritu • Juan Flores • Bryce Gibson • Seth Gordon • Ashley Grant Janel Gurney • Eric Haskins • John Hughes • Brian Jones • Ryan Kain • Bryan Kneeland Julie Kowal • Ross Mehaffey • John Mucci • Christopher Parow • Michael Pelosi Scott Petrichko • Patrick Pietrantonio • Jay Pupecki • Holly Reading • Matthew Robles Randall Salso • James Sandiford • Brett Smith • Sieva Tsodokov • Eric Wallin Angela Welch • James Zabala . . . as well as their instructors . . . Bill Bancroft • Matthew Burger • Fredrick Kuhn

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