

The background of the slide is a grayscale image of an engineering drawing on a sheet of paper. The drawing consists of various lines, including solid, dashed, and dash-dot lines, which represent different types of boundaries or features in a technical sketch. A pencil with a black and silver striped body is positioned in the lower right corner, pointing towards the drawing. The overall scene is slightly out of focus, emphasizing the technical nature of the subject.

GIS and Civil Engineering

GIS is not a career



Public Sector

Private Sector

Make Friends


Share Knowledge

Spiritually Invest

Section 1:

MAKE FRIENDS

Because people matter



Speak up

A dark, moody photograph of a large crowd of people, possibly at a concert or event, with a white rounded rectangle overlaid in the center containing the text "Reach out". The background is a dense crowd of people, mostly in silhouette, with some light reflecting off their clothing and hair. The overall tone is somber and atmospheric.

Reach out



Attend events



Make community

Twitter: #GIStribe

MeetUp: ESRI GeoDev Meetups


www.urisa.org: Regional URISA groups

LinkedIn: search groups for GIS + city/region

Section 2:

SHARE KNOWLEDGE

Ideas grow together



Have no fear

The background of the image is a dark, black field filled with numerous out-of-focus light circles, known as bokeh. These circles vary in size and color, including shades of white, yellow, orange, red, and green. They are scattered across the frame, creating a vibrant and abstract pattern. In the center of the image, there is a semi-transparent, light-colored rectangular box with rounded corners. Inside this box, the text "Teach and be taught" is written in a clean, black, sans-serif font.

Teach and be taught



Say it out **loud**

The background of the slide is a dark field filled with numerous out-of-focus light circles, known as bokeh. The colors of these circles range from warm oranges and yellows to a few cooler blues. The circles vary in size and brightness, creating a soft, glowing effect. A semi-transparent white rounded rectangle is centered on the slide, containing the text.

Ask, answer, share

ESRI courses: www.esri.com/training

Autodesk:

<http://knowledge.autodesk.com>

Bentley:

<http://connected.bentley.com>

FME:

www.safe.com/learning/training/on-demand

MOOCs:

www.coursera.org/course/geodesign

Free materials: www.geotechcenter.org


Section 3:

SPIRITUALLY INVEST


Love your legacy




Care about **projects**



Learn about design



Think about **users**



Treat it like your own



Realize the **impacts**



Walk away



Stick with it

My Muse:

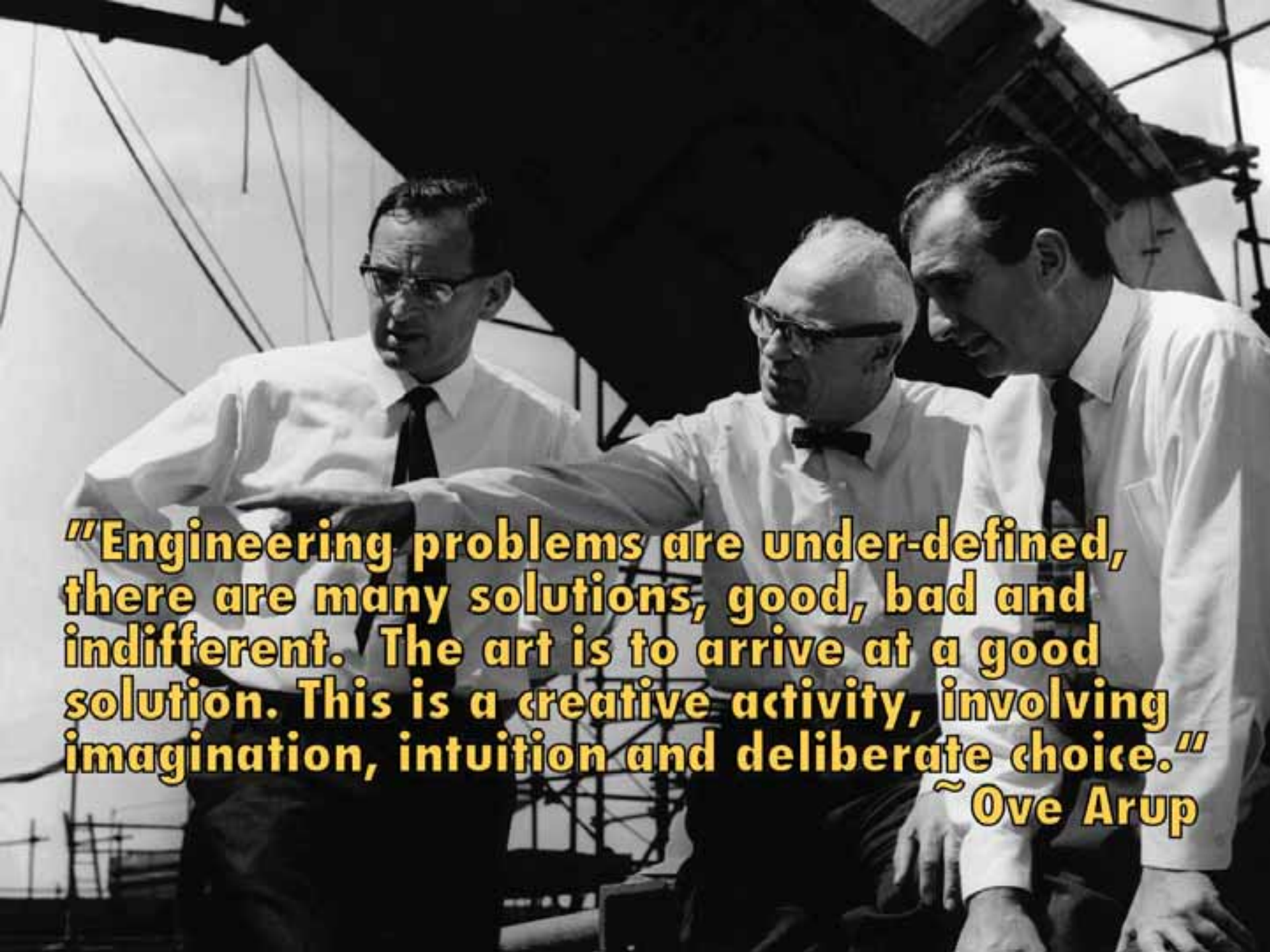
https://archive.org/details/The_California_Water_Atlas

Ethics (not just for engineers!):

<http://ocw.mit.edu/courses/engineering-systems-division/esd-932-engineering-ethics-spring-2006>

Summary:

1. **Make Friends** | because people matter
2. **Share Knowledge** | ideas grow together
3. **Spiritually Invest** | love your legacy

A black and white photograph of three men in business attire (white shirts, dark ties) standing on the deck of a ship. They are looking at something out of frame, with one man pointing towards it. The background shows the ship's rigging and masts.

**"Engineering problems are under-defined, there are many solutions, good, bad and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice."
~ Ove Arup**

Addendum:

PROJECTS

Things that drive me

#TADD
@austintexasgov

#iwillride

@arupgroup @arupamericas

Get in touch

Bond Harper is an Analyst for
Arup (a global engineering firm)
in Los Angeles, CA

Email: bond.harper@arup.com

Twitter: [@bondaharper](https://twitter.com/bondaharper)

Linkedin: [Bond Harper](#)