George Edwards' Scrapbook



The only way in which one human being can properly attempt to influence another is to encourage him to think for himself, instead of endeavoring to instil ready-made opinions into his head. —Sir Leslie Stephen

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I met a traveller from an antique land
Who said: Two vast and trunkless legs of stone
Stand in the desert. Near them, on the sand,
Half sunk, a shattered visage lies, whose frown,
And wrinkled lip, and sneer of cold command,
Tell that its sculptor well those passions read
Which yet survive, (stamped on these lifeless things,)
The hand that mocked them and the heart that fed:
And on the pedestal these words appear:
"My name is Ozymandias, king of kings:
Look on my works, ye Mighty, and despair!"
Nothing beside remains. Round the decay
Of that colossal wreck, boundless and bare
The lone and level sands stretch far away.
from "Ozymandias"—Percy Bysshe Shelley

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Heard from my friend Frank A Taylor, head curator of Engineering and Industries at Smithsonian Institute in Washington, D C.

He writes, "We are generating interest in a **museum of history and technology.** New museum will present America's history and technology from original settlement to position of world power. Aim will be to show how technology and industry made us a great nation. Other exhibits will cover engineering and scientific developments. With our Dr. Carmichael's belief in need for this museum, I'm certain we will interest people for needed support. . . ."

I seldom visit Washington without taking my friends through his engineering buildings. Last year I had a tough time getting my young son out of there. We all should certainly encourage this new project so engineers following in our footsteps will benefit from this remarkable institution.

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Do not waste your time on Social Questions. What is the matter with the poor is Poverty. What is the matter with the idle rich is Uselessness. —George Bernard Shaw

Rocket technicians at White Sands, N. M. have this saying. "You either have **just had trouble,** or you are now having trouble, or you are about to have trouble."

This is nothing new to a power engineer. Life is one headache after another whether we design, operate or maintain a power plant. But have you ever thought that if it weren't so, any office girl could take our place. And furthermore, what greater satisfaction do we have than licking a really tough problem?

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"Operating in a power plant is a tough way to make an easy living. —Marmadike Sobracebow

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P W Bridgman of Harvard University has been experimenting with high pressures up to **350,000 atmospheres.** Says he, "It is paradoxical that one of the greatest difficulties which at first opposed our entry into the high-pressure field, namely, leak of the transmitting liquid, disappears at pressures above 30,000 atmospheres. Simple reason is that there are no more liquids above the pressure—all liquids having been frozen solid by the pressure."

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Human nature craves novelty. —Pliny

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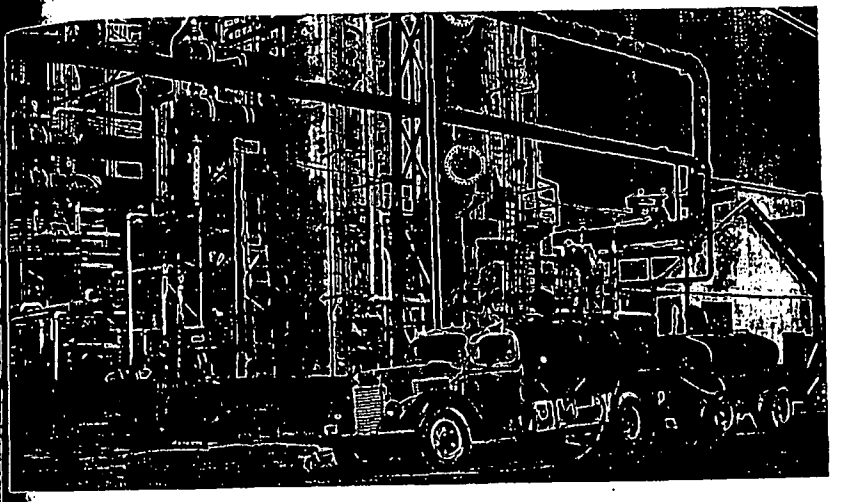
New General Motors **research, engineering and development** center is about half completed. It will employ 3500 scientists, engineers, researchers, stylists, designers, shopmen, mechanics and other specialists. "End objective is more and better things at lower prices, thus expanding job opportunities and contributing to an advanced standard of living," said board chairman A P Sloan, Jr.

I'm sure this sort of thing is our greatest "secret weapon" and the best answer to the many crackpot 'isms' floating around the world.

George Edwards
Engineer

HEAT EXCHANGER EFFICIENCY RESTORED BY DOWELL SERVICE

Scale deposits removed by chemistry without dismantling equipment . . . without production shut-down



When scale and sludge accumulate on your heat transfer equipment, there's bound to be a reduction in efficiency with an increase in operating costs.

The Dowell method of removing scale and sludge *by chemistry* has been accepted by thousands of plant operators as a fast, safe and economical way to help restore efficiency to equipment.

Dowell was recently called upon to clean three badly fouled heat exchangers in a refinery. Dowell engineers pumped liquid solvents into the areas of the exchangers to be cleaned. Then, after sufficient reaction time, the spent solutions were flushed from the units, along with the sludge accumulations. After cleaning, one unit could carry the load previously carried by all three.

The Dowell method is fast and economical because solvents are pumped into equipment through regular connections without dismantling. Many types of equipment can be cleaned while in operation. No special devices or rig-ups are needed. It's efficient, too, because these solvents reach wherever steam and water flow. Even the most complicated heat transfer surfaces—angles, curves, piping—have been cleaned effectively in this manner.

Furthermore, Dowell furnishes the trained personnel, the truck-mounted tanks, pumps, heaters, mixers and control equipment to do the job.

What's *your* cleaning problem? Dowell engineers will be glad to talk with you about better, faster and more economical ways to clean your equipment. Contact your nearest Dowell office today. Or, write directly to Tulsa, Dept. K-23.

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