

For Janet

GOESSMANN GAZETTE

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editors
Jessie C. Broadfoot
Susan Knaster

There once was a place, Goessmann Lab
Where people in research would dab.
Some would leave, some would stay
Only to watch the years slip away
While the University picked up the tab.

Lord Byron's Enigma

I'm not in earth, nor the sun, nor the moon.
You may search all the sky - I'm not there.
In the morning and evening - though not in
the noon -
You may plainly perceive me, for, like a
ballon,
I am midway suspended in air.
Though disease may possess me, and sickness
and pain,
I am never in sorrow nor gloom;
Though in wit and wisdom
I equally reign.
I am the heart of all sin and have long
lived in vain;
Yet I ne'er shall be round in the tomb.

Doodles submitted to the doodle contest
are posted on the bulletin board in the
front hall. (There are some very strange
people in the department).

Sports News

Shortly after the last issue of the
Gazette went to press, the Orbital football
team was stunned by the news that it had
one more (unscheduled) game to play. When
the players were informed of the additional
"position-play" game, their responses
included shock, dismay and fits of laughter.
However, team spirit prevailed, and a
seasoned group of Orbitals turned out on a
bleak Tuesday evening to face the Bunsen
Burners again.

Right from the start, it looked like the
Orbital "magnificent seven" would have
little trouble subduing their opponents,
as quarterback Steve Erikson effectively
mixed running plays with passes. He had
good protection from his offensive line
which helped him to pinpoint his aerials
and complete four touchdown passes - two to
Russ Gaudiana and one each to Ken Rillings
and Al Siegel. Erikson carried the ball
himself into the end zone for another T.D.
Even our defense scored when John Szobota
intercepted a pass and ran it back forty
yards for our sixth touchdown.

After most of our T.D.s, our team
attempted to try for two points rather than
place-kick, and Al Siegel added four more
points by catching two after-touchdown
passes. Similarly, one pass each was
snatched from the air by Ken Rillings and
Pete Rahn.

Our defense held steadfast and didn't
allow the opposition to score at all, and in
this season finale, the Orbitals extinguished
the Burners 44-0. Although the Boyden
Intramural Office now doesn't know why this
mysterious last game was played, it enabled
our team to end its season strongly with an
additional win. The Orbitals finished fifth
in a seven-team league.

Mike Calabro
Chairman, G.C.A. Sports
Committee

The British are Coming! The British are
Coming! (Peter C. Uden)

The autumn (Fall) of 1970 saw the
ironic spectacle for an institution in
the Commonwealth of Massachusetts
(setting Revere and company turning, no
doubt, in their graves) of a two-fold
invasion by British chemical faculty,

John Wood and myself. Forgiving the local inhabitants for their strange behavior of the 1770s, we appeared full of goodwill and with pious hopes that in the fullness of time the errant child could be persuaded to rejoin that empire on which the "sun never sets". Awaiting that happy day, while never neglecting an opportunity for some healthy propaganda for the cause, I have been gradually orienting to the substantial changes in organization and philosophy between U Mass and the University of Birmingham, England where I had taught previously. At this stage a rapid biographical sketch is called for.

Just three months after I was born in Southampton, England, the Second World War began (remember that we got into this rather earlier than the USA). While the second event was not specifically derivative from the first, I can claim any odd quirks of present character as resulting from deep psychological changes imposed by a life of bomb raids, blackouts, rationing, dried egg and dried milk powder, not to mention hundreds of U.S. tanks (complete with large-scale gum distributors) rolling past our front door.

Surviving all these privations I eventually proceeded to the University of Bristol, England where I received both B.Sc and Ph.D degrees in Inorganic Chemistry in 1961 and 1964. (Graduate study at the same university for both degrees is frequent in Britain). While there I first became involved in my continuing area of interest - gas chromatography, specifically or organo-silicon, germanium, and tin compounds. I then spent two years as Research Associate and Instructor with John C. Bailar in the Inorganic division at the University of Illinois, working on the enhancement of dehydration catalyst activity by the incorporation of radioisotopes.

In 1966 I returned to England to join the Analytical Chemistry department at the University of Birmingham where I developed a strong interest in the analytically useful properties and inorganic chemistry of volatile metal chelates particularly from the viewpoint of G.C., Thermal and

Mass Spectral Studies. Other recent interests in the Gas Chromatographic area include investigations of B-S, B-O, and B-N heterocycles, iron carbonyl diene complexes, the preparative G.C. of cis and trans croton-alcohols and volatile phenyl mercury compounds. Other areas of research have included work on quinoxalines as spectrophotometric reagents, chloroaminodiphenyl as a precipitant for sulphate, and trace chloride analysis by the displacement of HCN from mercuric cyanide.

The foregoing list may serve to indicate something of my chemical research philosophy, namely chemistry is still a varied, interesting and useful subject (despite current rumours to the contrary). A prime requirement for successful study and research in any sphere is a real enthusiasm for one's work. Anyone whose approach is half-hearted, however brilliant they may be, will show little advancement. This is particularly true today in our scientific "Hard Times". Some students seem defeated before they even begin. This attitude is readily perceived by teachers, colleagues and prospective employers and the individual assessed accordingly.

Another aspect of graduate education which I consider vital is that at this stage each student is principally his own teacher, for it is only by broadening his own subject base that he can justify the titles of Master of Science or Doctor of Philosophy (Think on those titles for a moment or two!) Higher degrees have long tended to narrow specialization; today this is a decreasingly adequate preparation for subsequent careers. Perhaps the combination of specialist and generalist is unattainable but all should attempt to gain both mental and technical expertise in as many areas of their broad field as they can. Graduate school is the ideal place to do this; you are unlikely to have a better opportunity any time.

Hopefully fulfilling these objectives, the following graduate students are working with me:

Kathy Elliott: G.C. investigation of photochemical reactions of metal chelates.

David Henderson: The potential of tetradentate keto- imine ligands in transition metal trace analysis.

Abbass Kamalizad: Determination of amines as diketone derivatives. Analytical applications of - ketoimines.

Chien- S Liang: Analytical and Inorganic chemistry of sulfur-oxygen chelates.

Ken Blessel: G.C. resolution and preparation of meso and racemic isomers of butylenediamine chelates.

Table of Data from the Do Nothing Laboratory

International Duck Hunt Results

<u>Name</u>	<u>Duck</u>	<u>Shots</u>	<u>Percentage</u>
Pete Nanook	1	6	0.166
Dr. Doom	1	3	0.333
Joe Dingbat	1	8	0.125
J. C.	4	14	0.286
Hudson (dog)	4	0	∞

International Fish Catch Results

C. Y. Wu	16"	Rainbow Trout
K. Kai	14"	Rainbow Trout
S.P. Frankoski	limit	of Brown Trout