



tek talk

employees' publication of Tektronix, Inc.

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December 14, 1959



up go the concrete arches at our ceramics building

tek talk

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a matter of common decency

Because of my position as roads chairman for Beaverton chamber of commerce and my position with Tektronix, I receive phone calls from residents complaining about or asking about traffic and road situations in and around Tektronix.

I recently received a call from a lady who lives on Merlo road.

Over 100 cars per shift drive past her house. They often travel at rather high speeds down Merlo road. There are large chuckholes in front of her house, to avoid which, drivers are driving far over to the side of the road and encroaching on the lady's lawn. One got so far as to knock down her mailbox.

The mailman, delivering the mail to her door because the box was down, was bitten by her dog. She now has a \$10 doctor bill to pay for him.

I feel all of us should be grateful to have a faster access away from the plant than was provided by Cedar street. I feel we also owe the public some consideration in our behavior and driving patterns.

At 3:35 it is obvious to the area's residents that these drivers streaming by are Tektronix people. I feel they should expect behavior just a little better than that of average motorists.

It's regrettable that the county road is in disrepair. Until it's rectified I would strongly recommend that drivers slow down and go through the chuckholes rather than drive on someone's lawn.

I further feel whoever knocked down the mailbox should have reported it to the owner. This seems to be no more than common decency. I feel the guilty person should at least forward \$10 to this woman to reimburse her for the mailman's doctor bill.

A further danger on Merlo road is the presence of school children walking or riding bikes home at shift change time. If cars are being driven sufficiently out of control to destroy mail boxes, they can as easily destroy a child.

I cannot stress too strongly the value of good public relations between our company and our neighbors. Much traffic inconvenience caused to the community by the arrival of Tektronix was unavoidable. These people are aware that we are bringing income into Washington county and that industry is badly needed.

They are willing to put up with standard inconveniences until an adequate road system is available. However, misconduct by our drivers is not excusable. It detracts seriously from Tektronix' public relations.

If we expect the community to be behind our drive for more industry, better roads and better conditions in Washington county, all of us must present a face to the community that is apt to inspire this kind of help and co-operation. We can't do it by destroying private property and showing lack of consideration for the other people who were here before we were.

Is there any driver at Tektronix who would like to give his or her child as the first to be killed by careless driving? Is this the price we have to pay?

.....Scott E. Foster Jr.
Purchasing Agent

CALENDAR

TUESDAY, DECEMBER 15

Production Job Evaluation committee, 9 to 10:15 a.m. Beaverton conference room.

Advisory group luncheon, noon to 2:30 p.m. Berg's restaurant.

WEDNESDAY, DECEMBER 16

Group representatives panel, 2 to 3:30 p.m. Beaverton conference room.

THURSDAY, DECEMBER 17

Credit Union credit committee, 2:30 p.m.

FRIDAY, DECEMBER 18

Tektronix Amateur Radio club, 7:30 p.m.

MONDAY, DECEMBER 21

Fortune Investment club.

TUESDAY DECEMBER 22

Production Job Evaluation committee, 9 to 10:15 a.m. Beaverton conference room.

Advisory group luncheon, noon to 2:30 p.m. Berg's restaurant.

Group representatives, 2 to 3:30 p.m. Beaverton conference room.

WEDNESDAY, DECEMBER 23

Tektronix Employees Geology club, 7:30 p.m. Cedar Hills Community Church.

THURSDAY, DECEMBER 24

Plant shut-down day, to extend Christmas holiday.

to repeat an invitation....

An editorial in the last issue announced our plans to encourage and publish letters from Tek Talk readers.

Because that issue went to press **after** the copy dead line for this one, letters received in response to the editorial can't be published until the next Tek Talk.

To repeat our invitation:

The page will be open, without question, to employees' letters expressing ideas about anything the writer thinks is of interest to Teks. Yes, this includes touchy subjects. It includes gripes—as well as non-gripes.

If you prefer, your name won't be published, but letters should be signed for the editor's information. Names withheld will be kept in strictest confidence.

How long should letters be? Long enough to say what you have to say. They oughtn't be malicious, because the government has its rules about libel.

Otherwise, nobody will censor your letters, or say some are worth printing and others aren't.

Until it proves unworkable, our policy will be: You write 'em, we'll print 'em.

.....Joe Floren

COVER—Scheduled for completion sometime in April is Tek's new Ceramics building at Beaverton, where the huge concrete arches for the kiln room were erected in late November. Continuation of the steel strike has made some local fabrication necessary and delayed building by four or five weeks. Construction of some processing equipment, including kilns, will get underway shortly.

Tek Participates at NEREM; 12,500 Persons Register

Tektronix participated in the exhibits portion of Northeast Electronics Research and Engineering Meeting, held at Boston November 17-19, reports Chuck Gasser (Advertising), who attended. The session drew 12,500 persons.

Objective of the meeting is to present an interesting program of technical papers and exhibits of interest to electronics engineers and other industry representatives.

"Dick Phillips and the Lexington office crew did an excellent job of planning our exhibit," Chuck states. "Dick and field engineers John Adams and Jim Johnson of the Boston office were assisted by field engineer Dan Guy from Atlanta. Norm (Sampling System) Winningstad and myself from Portland, and Eastern division manager Scotty Pyle, Boston office maintenance engineers Lee Heaton, George Muckenstrom, Joe Polhill and Ed Chunglo kept constant watch on

all Tek instruments, including many loaners and "owned" scopes that were part of other exhibitors' displays.

"Boston field secretaries Virginia Murray, Sylvia Barnaby and Diane Swanson each managed a brief visit."

Crowd Doubles Since '58

Attendance was double the 1958 figure, and the Tek booth was crowded throughout the meeting.

Norm met with two groups of the Boston office's most interested customers and discussed our new pulse-sampling system (type N plug-in unit, type 110 trigger and pulse generator and type 113 delay unit.) Interest in the sampling system was high throughout the show.

New instruments displayed included the types 585, 544, Z, 321, 555, and Q.

Dick and Scotty interpret the large show attendance as an indication that the sales potential for our products in the Boston area is growing fast.

Bill Barnes, Betty Whiting Honored at Holiday Dance



BETTY
WHITING



BILL
BARNES

Bill Barnes (Special Products) and Betty Whiting (Quality Control) were honored for their long service on Tektronix' recreation committee, as a surprise feature of our holiday dance, held December 5 at the Portland armory.

Dance chairman Bob Hart announced the special commendation. Both Bill and Betty have been active for many years on Tek recreation projects, including the annual family picnic.

Betty concluded her term on the committee in October, and was replaced by Art Carlson Jr. Bill's term also is coming to an end.

A large crowd attended the holiday event, and danced to the music of the Rose Tones orchestra.

Highlight of the evening was the appearance of Santa Claus (Waldo Johnson of Shop), who distributed presents.

Another show-stopper was the men's cancan chorus line, composed of Jim Herr, Herb Webb, Al Foleen, Art Pettai, Bob White, Lee Miller, Art Carlson Jr. and Dick Braniff.

Betty Whiting sang, accompanied by a vocal quartet: Kevin Van Hoomisen, Al Dvorak, George Riley and Boyd Lewis.

A sack dance was performed by Bernice Lucas, Lorraine Irwin, Virginia Vogan, Ella Beevor, Mary Kingsley, Loretta Paulson and Marilyn Hansen.

Eleanor Ross was stage door director and Bea Gentry was in charge of make-up.

Master of ceremonies was King Handley.

Bob Hart also thanked the group of Unit Wiring women volunteers who decorated the armory dance floor and balcony. Assisting decoration chairman Jean Benito were these UW co-chairmen:

Marilyn (and Floyd) Reynolds, Verna Hunziker, Merle Sveta, Darlene Hart, Pat Alberding, Elsie Blatter, Betty Leedom, Evelyn Sotto and Vi Mills.

Decoration Impressive

The hall was decorated with ceiling ornaments, festooned with streamers and spotted with yuletide boughs. A Christmas tree stood at one end of the ballroom. At the other was a canopied stage, on which the band played and the entertainment was presented.

Two giant candy canes arched over the entryway. Ticket booths were wrapped like Christmas presents.

After the dance, employees removed the decorations and took them to various locations in our Sunset and Beaverton plants.



JIM JOHNSON (right) AND VISITOR



DIANE SWANSON AND 321



JOHN ADAMS (right) AND PROSPECT



DAN GUY (left) AND SPECTATOR

Yule Project Begun in '55 Brings Hope to Korean Girl



LETTERS from Cables department's foster child, Bok Mi, are displayed by (from left) Esther Sipe, Dorothy Canter and Jean Lohse, three employees instrumental in promoting the department's sponsorship of the young girl, beginning as a Christmas project in 1955. Employees contribute \$15 a month, as well as sending individual and group gifts on Christmas and her birthday. Below is a recent snapshot of Bok Mi, now 11 years old.



Unique among the many Christmas projects undertaken by Tektronix groups over the years is that of the Cables department.

It started during the holiday season of 1955 when employees decided to "adopt" a little Korean girl, Han Bok Mi, under the Foster Parents Plan, Inc. Now, nearly five years later, the department is still her foster parent.

About 35 Cables women are taking part this year, contributing roughly 50 cents apiece a month to help supply her with food, clothing, medical attention, a cash grant and a chance for schooling.

Foster Parents Plan asks a contribution of \$15 a month. Of this, \$9 (5000 hwan) goes directly to the girl's family and the

rest is used for medicine, clothes and food.

Bok Mi, now 11 years old and starting the fifth grade, has been able to go to school only through her foster parent's contribution. Her mother peddles vegetables, earning about 30 cents daily, and her elder brother makes \$20 a month as a drug store keeper.

The girl, described as "active, bright and friendly," is an above-average student, talented in dancing and singing. Her favorite subject is mathematics.

When Cables hit upon adopting Bok Mi as a Christmas project, 16 members took part. At that time the girl and her family were in a "fire refugee" tent camp at Pusan. The mother was selling cigarettes in the streets. The father and an older brother had been killed by the Communists. The children were too poor to attend school.

Thanks to aid given through the foster parent plan, the family's living standards have continued slowly to improve.

Besides the monthly grant, Cables members—as a group and individually—send Bok Mi cash and presents on her birthday and at Christmas. They receive regular letters from her, telling about her school, church and home life.

Some excerpts:

"My only hope for these days is that someday I would be able to see you. When I see other children walking with their fathers, I envy them and think of you very much....."

"We do not know how to thank you enough, and we just pray God that He be so kind as to reward you a thousandfold. We are starting our prayers for you even now..."

Expert Talks To Technicians About Cleaning

Visiting Tektronix November 17 and 18 was Dr. E.B. Saubestre, director of research for the Enthone company, New Haven, Conn. He was touring Western industries to study various problems pertaining to metals and alloys.

He spoke to a group of our employees from Chemical Engineering, CRT, Production Chemistry, Semiconductors, Photography and Evaporated Phosphors, discussing their cleaning and plating problems.

Dr. Saubestre, while working on his doctorate in chemistry at Columbia with a scholarship from American Electroplaters Society, developed a new method of detecting minute impurities on metal surfaces.

Important in Electronics

This process is important in the manufacture of electronic parts and semiconductors. He discussed his method at the meeting here, along with silicon cleaning, ultrasonics, glass and ceramic cleaning, industrial electroplating and vapor cleaning.

The Enthone company is expanding from the East coast to determine problems of West coast industries and set its research division to work solving them.

Dr. Saubestre also was the guest speaker at the local chapter of American Electroplaters Society, to which Everett Cook (Shop) is our representative.

Tycoons Report Good Four Years

Now in its fourth year is the Wall Street Tycoons investment club, one of four such groups formed at Tektronix.

Members report a profitable four years and can boast of owning 13 shares of Ampex, one of the more active stocks last month on the New York exchange.

Six charter members are still active in the club. Joe Vistico and Carl Helmer withdrew when they transferred into Field Service.

The group has a waiting list of prospective members.

December meeting will be at the home of President Otto Zach on the 9th.

Geology Clubbers Elect Dick Easton

Dick Easton (Assembly Materials Forecasting) was elected president of Tektronix Employees Geology club at the group's November meeting. He succeeds Vern Barlett (Plastics).

Other officers chosen include:

Jim Boyle, secretary-treasurer; Boots Kirby and Ed Healy, planning committee members (holdover is Helen Ross); Gloria Montag, director of Northwest Federation of Mineralogical Societies.

STOCK TRANSPORTATION: Nine Trucks, 140,000 Miles a Year



MOVERS OF MATERIAL to and from Tektronix' various locations of Stock's transportation section (from left): Ray Carson, Ron Fricke, Bob Perry, Gene Buell, Nick Hughes, John

Harris, Merlin Miller, Rob Morgan, Tom Kalimanis, Ronald Bennett and Duane Rash. Vehicles haul stock both on an interplant and downtown basis.

By GEORGE KHTAIAN

As Tektronix has grown, inventory levels have increased along with the needs of the production process to be fed the right materials at the right place, at the right time and in the right amounts.

Helping carry out this "feeding" function is the Stock transportation section, located at the warehouse on Hocken street.

In the daily hustle-bustle of work, we don't give much thought to the workings of other departments, so let's take a quick look at some of the transportation section's work.

Everyone is familiar with the spread-outness of various sections of the company. Ready to service every Tektronix location at a moment's notice are the trucks pictured above.

There are two Volkswagens (drivers: Tom Kalimanis and Ronald Bennett) on a fixed schedule for interplant pickup and delivery of stock, paper work and an occasional passenger. The two average about 4000 miles a month. A third Volkswagen is used for expediting "hot stuff" interplant and to downtown Portland. It's also used as a replacement truck if one of the other two, or one of the two panels, is down.

The Ford and Chevrolet panels (drivers: Merlin Miller and John Harris) make downtown pickups of purchased items almost exclusively, averaging 15,000 pickups per month in the Portland area.

Two-Way Radios Due

The two panels, which also make some interplant pickups, are soon to be equipped with two-way radios, which will considerably enhance their effectiveness.

Our four 1½-ton vans are used to haul stock both on an interplant and downtown basis. The two 1960 Ford vans (drivers: Nick Hughes and Gene Buell) make pickups and deliveries from CRT, East Side Platers, Chemical shed, Panelcraft, etc.

The other two vans (drivers: Ray Carson and Ronald Fricke) take care of most of the "allotment" moves. They move raw stock, most of the transformers, skids of aluminum to the shop, cartons from downtown, Scopemobiles to Shipping...

Also, they transport scrap aluminum to

Alcoa at Vancouver. To date 275,000 pounds have been hauled. At a saving of 13 cents a pound this will amount to \$39,000 by year's end.

These nine vehicles are constantly on the move, hauling thousands of tons of materials. The two panels alone pick up about 40,000 pounds a month from Portland stops.

The vehicles make about 100 stops a month at our separate Portland warehouse locations at the B & O and Green terminals.

Mileage for 1959 for all the vehicles will run to almost 140,000 miles, consuming around 12,000 gallons of gas.

Could Get to Moon

Now hang onto your space-age hat! If your automobile gets 15 miles to the gallon (foreign car drivers, wipe off those smirks!), it could travel all the way (240,000 miles) to the moon on the gas used by our trucks in 16 months' time. Of course, it will be on an unpaved road.

The dispatcher of this fleet of nine is that friendly cartoonist, Bob Perry. Bob's point of pride isn't in this talent but in the fact that in the more than two years he's been dispatching there hasn't been one single chargeable accident against our drivers. This points up to the high caliber of men picked to drive Tektronix vehicles.

(Bob points out, though, that, sure as shootin', when you start boasting about safety records, the worst happens, so let's just play like nothing was said.)

In the transportation section, life is made just a little more pleasant by the amusing things that somehow manage to happen. Some time ago Gene Buell picked up a crate of eggs at the Beaverton plant for the snack bar. When he got into the back of the truck the crate bottom fell out, splashing eggs all over.

When he got back to the warehouse, deeply mortified, Bob told Gene to get a blowtorch and fry the eggs, so they could easily be pried off the deck.

DON ALVEY of Guernsey, our European field engineering manager (right) chats with Frank Thomas of Marketing during Don's regular "recalibration" visit to Portland. It was his first trip to the home plant since last winter, and included briefings on all phases of our operation.



TORTURE CHAMBER~



FRANK MANIATIS (left) and Bob Poulin watch intently as a 945 militarized scope is shaken violently on a vibration table, part of the torture treatment which is our environmental testing program. They're using a repeating strobelight to "slow down" the scope motion, which otherwise would be too fast for the eye to observe.

Down in the Tektronix boiler room a handful of employees gets together regularly to shake, freeze, rust and otherwise work mayhem on oscilloscopes and scope components.

They vibrate a scope on a 550-pound wiggly-table that can crack a normal chassis in a matter of minutes.

They put the instrument into what looks like a deep freeze and souse it with salt spray.

They subject it to subzero cold and near-boiling heat. They test it at a simulated 50,000-foot altitude and under extreme humidity.

Then they take a look to see if it's still together, and working.

Manning the company's new torture chamber are Jack Luscher, head of our Militarized Products environmental testing program; Frank Maniatis, in charge

of structural work, and chief engineer Bob Poulin.

They hope to come up with a "ruggedized" scope tailored to strict military specifications and thus send a new type of Tektronix entry into this new, fast-breaking market.

We Grow Our Own Fungus

Military 'specs' call for a lot. To meet them, a scope has to survive prolonged periods of vibration, heating, freezing, soaking and even exposure to four types of fungus. (We're growing our own, to cut costs.)

What we now sell the armed forces are standard commercial instruments, as are nearly all the competing products. But the day of the ruggedized scope is fast nearing, and Tek intends to be ready.

Militarized Products is now moving its bulky test equipment next door into the

new Facilities Annex, which will provide quarters more suited to its experiments.

Devices include:

A reaction-type mechanical shake table, which can vibrate at 100 cycles per second at 10 Gs (or 10 times the acceleration of gravity). Driven by eccentric weights, it can take a 300-pound load, jiggling it up and down, then back and forth, then sideways.

A temperature-altitude chamber, including a big oven with controlled temperatures of from 300 to -100 degrees Fahrenheit (although we use only the range from 185 to -85). An altitude capsule fits inside, a vacuum box that creates artificial altitudes up to 50,000 feet.

The oven, which uses liquid CO₂ for cooling, can "pulldown" the temperature from normal to -85 degrees in two minutes.

A salt spray machine, which nozzles five gallons of solution a day as a salt fog into a chamber kept at about 96 degrees. The device is used mostly to check and compare instrument finishes.

A homemade plastic and metal tank in which the four kinds of military-specified fungus are being grown in a hot damp climate. To check scope and component finishes, testers spray them with fungus and let them sit for a month.

If any finish provides a nutrient, fungus will form on it. Plastics, for example, are notoriously "nutritious" unless treated with an inhibitor.

We're Doing Mean Things to Some of Our Scopes, All In The Name of Environmental Testing

Fungus growth, unchecked, can fill up a scope and break down its electrical characteristics.

The tank was built by Vern Barlett (Plastics) and the metal base by Hank Jones (Oven and Kiln).

A humidity box, in which relative humidity is controlled in a range from 20 to 100 per cent, at temperatures of 32 to 200 degrees. It has its own refrigeration and heating systems.

Our only militarized scope so far (10 of them will be produced shortly for testing and as demonstrators) is the X945, a toughened-up 545, which has been put through vibration, altitude, temperature, humidity, salt spray and fungus tests.

Military specifications ask that a scope survive 1½ hours of 5-G vibration. The X945 underwent 7 Gs for three hours, with no structural failure.

It consists of beefed-up chassis, built around a central bulkhead, and ruggedized components, including a Tek-built CRT, strengthened to meet environmental requirements.

No structural part of the X945 is interchangeable with any on our commercial instruments, Frank points out. Ruggedization has resulted in substituting stronger, often lighter parts and, as he puts it, "educating the material." This "education" mostly means dispersing the stress by modifying the structural design.

Bugaboo in vibration testing has been the transformer. Because of its concentrated mass, it's hard to hold down.

Besides pushing the X945 through its paces, the department's test equipment has been put to more immediate use: Shaking, chilling and generally working over many of our commercial instruments and components.

This torture may show up structural weaknesses that could result in undue damage during handling and shipping. It also may indicate electrolytic corrosion from use of dissimilar metals next to each other.

Because of this test work, some instruments already have been modified.

We lack one test device required by the military: A guillotine-type shock table, in which a scope is fastened to a platform and dropped from various heights onto a lead or neoprene pad—creating shocks possibly as high as 30 Gs! Underlying the pad will be a seven-ton slab of concrete already built into the Facilities annex floor.

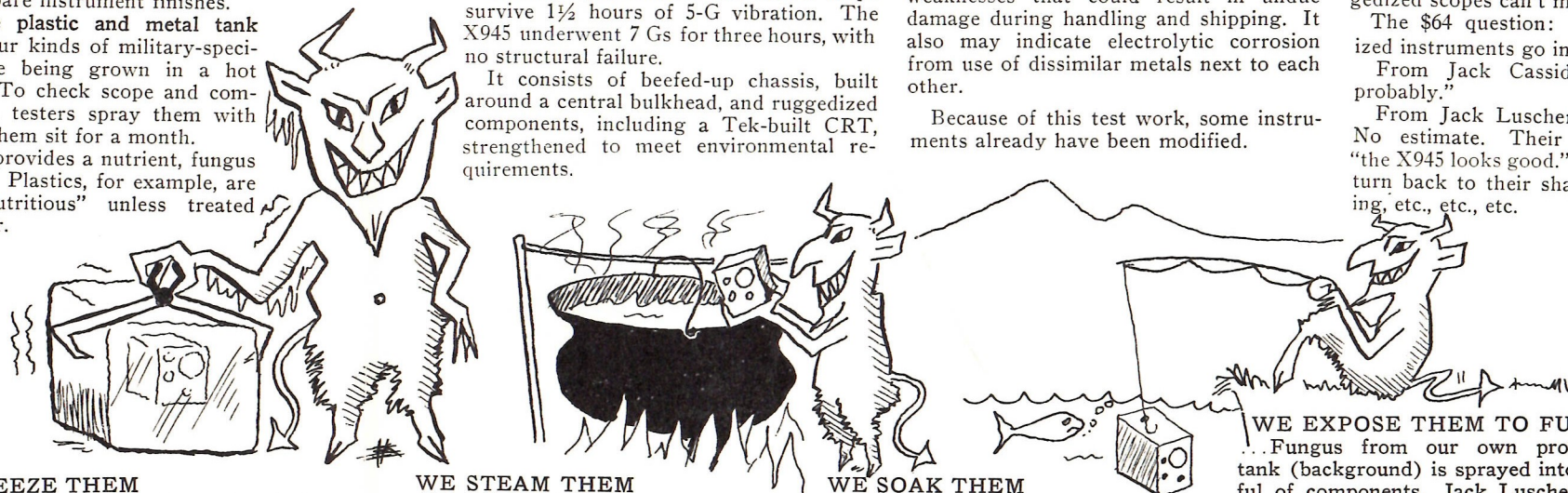
After the shock machine is built or bought, completing our test battery, MP personnel can run a scope through its full baptism of fire, which should take about 60 days.

Militarized scopes won't replace commercial instruments we now sell the armed forces, according to department head Jack Cassidy, but rather supplement them—filling needs the non-ruggedized scopes can't meet.

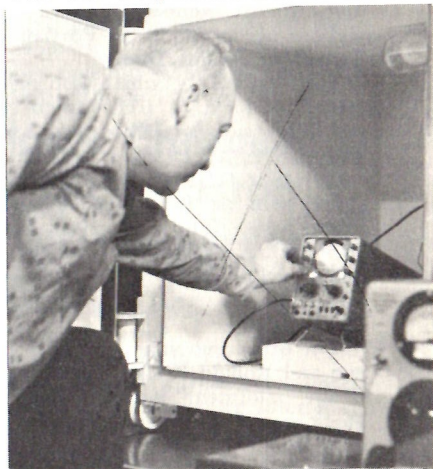
The \$64 question: When will militarized instruments go into production?

From Jack Cassidy—"By mid-1960—probably."

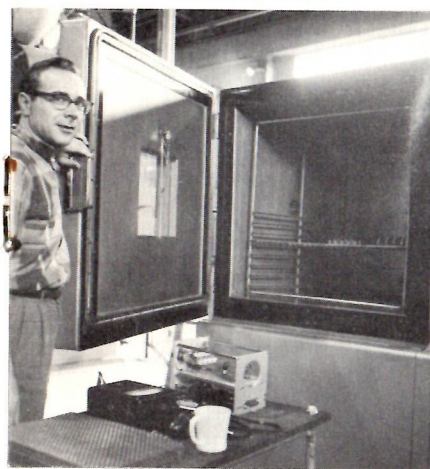
From Jack Luscher, Frank and Bob—No estimate. Their only comment is, "the X945 looks good." And with this, they turn back to their shaking, freezing, boiling, etc., etc., etc.



WE FREEZE THEM
...in our temperature-altitude chamber...



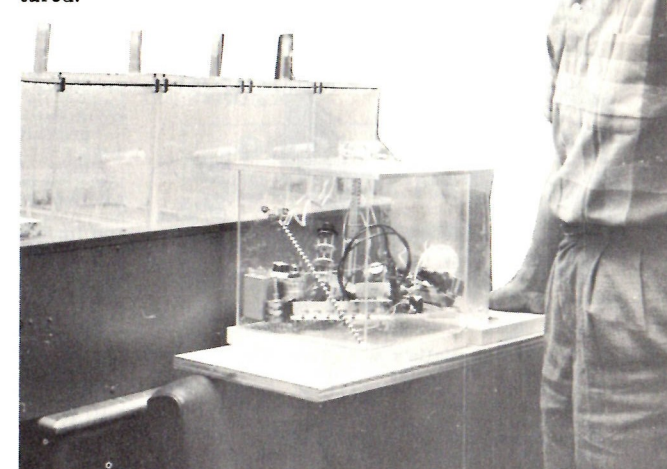
WE STEAM THEM
...in our humidity oven...



WE SOAK THEM
...in our salt spray tank...



WE EXPOSE THEM TO FUNGUS
...Fungus from our own propagation tank (background) is sprayed into a caseful of components. Jack Luscher is pictured.



KNOW STOCK



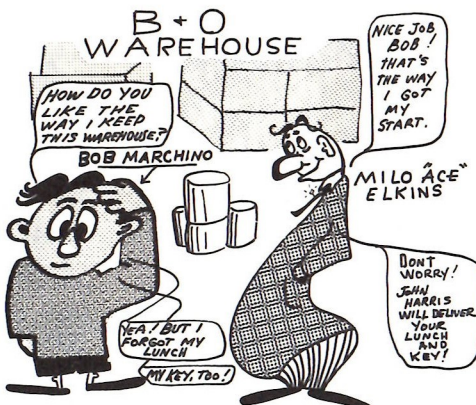
A few months ago we pictured a male square dance caller. Lo and behold, we have now found within our midst a rarer variety—a lady square dance caller. The name of the lovely caller pictured above is **Mildred McCann** who works in the Beaverton Pre-pak section. She is shown calling at the 59'ers Club in Tigard. Shown in front of Mildred are **Buzz Carrier** (Warehouse) and his wife, **Glenora** (Beaverton Pre-pak).

Mildred started square dance calling back in Massachusetts, gaining close to seven years' experience before moving to Newberg about one and a half years ago. As with other callers, Mildred simply drifted into the game by attending square dances for enjoyable recreation. For the square-dance-minded, it should be noted that she prefers to do the "singing" (popular music) type of calling as opposed to "patter" (rhythm or beat) type calling, and draws strictly from memory.

The whole McCann family greatly enjoys square dancing with both of the two older girls and her husband, **John** (Finals) all being avid square dancers.

Mildred has only one regret, and that she sold all her calling equipment when she came to Oregon and has now found a renewed need for such equipment. As the saying goes, "You can't take it with you". However, Mildred did manage to take the most important thing with her—her voice—and for that we can be grateful.

This time **Bob Perry** cartoons down to our outlying Portland warehouse on Yeon Street at the B&O terminal to pay homage to **Bob Marchino**, who always seems to be forgetting his keys. Milo says Bob is doing a whale of a good job down there, but gosh, we've got to kid Bob about something! We captioned this one MNEMONIC NONSENSE.



CRIT

Dorothy LaSalle's son Tom has left to "see the world". He is now in training at the Naval Training Station, San Diego. **Marge Sweet** and **Faith Lopresti** were hostesses at a recent housewarming for **Joan Spurgeon**. Everyone had a wonderful time and Joan's grocery shelves are well stocked.

Laine Pettai is now back on the job fully recovered from injuries suffered in a recent auto accident. Her little car was not quite so fortunate.

Myra Baska is recovering from recent surgery and we all wish her a speedy recovery.

Elections were held last week for a new group representative with **Anne Bloedon** winning that post and **Corinne Young** getting the nod for alternate. We want to thank **Kay Conklin** for a wonderful job well done.

The **Jack Schallers** announce the arrival of a son, **John Jay**, 8 lbs., born November 20 at the Emanuel Hospital. This is the Schaller's fourth child. The others are two girls, 8 and 5, and a boy, 7. Both the Schaller sons were born on November 20.

Bradley James, 6 lbs., 13 ozs., was born to Mr. and Mrs. **Ted Woodhouse** on November 21 at the Wilcox Memorial Hospital. The Woodhouses have another son, **Jeffery**, age 2 years.

We would like to welcome two new employees, **Gertrude Seth** in Bottle Prep and **Maxine Fisher** in Phosphor. We also welcome **Bertha Chamberlin** and **Olga Bolin** who have transferred from Accessories to Pilot Production and **Ruth Lindahl** in the 581 Pilot Production group from swing.

Saying good-bye has become a habit in **John Syerly's** group. Beginning with **Lorella Vice**, **Judy McAuley** and continuing with **Ruth Lindahl**, they all went on the day shift.

Pump department welcomes back **Paul Zerginyi** who has been on sick leave recovering from an accident. **Vern Tupper**, a newcomer in Pumps, was also welcomed by the swing shift.

Marge Caire in Phosphor department is leaving swing for the day shift.

A new face in the Small Parts department is **Paul Gallaway** of Hillsboro. Paul and his wife, **Evelyn**, have two sons, **David**, 2 and one-half years old, and **Ron**, 3 and one-half months. Before coming to Tektronix, Paul was with Iron Fireman. Here he works in the press room.

We would like to welcome **Virginia Stuart** and **Arlene Tauscher** to our group. Virginia comes from Pilot Production. She and her husband, who works in Pumps, live in Forest Grove with their two daughters, **Nancy**, 16, and **Linda**, 12. The Stuarts' hobby is bowling. **Arlene**, her husband, and eight month old **Brad** live in Hillsboro. **Arlene's** favorite pastime is swimming.

Dick Trythall is the supervisor of the Small Parts group. **Dick's** and his wife **Gladys'** pride and joy is their 2 and one-half year old daughter, **Jody**. **Dick** is particularly interested in building hi-fi sets.

On November 18 coffee and cookies were served to welcome the newcomers to the Small Parts department.

KIT PREP AND COMPONENT TEST

Saturday, November 21, the rain stopped and the sun came out and we realized this is it—inventory day. Twenty Kit Preppers (all volunteers) answered the call to duty for four or five hours of work. Ten hours later with twenty-some recruits from Stock, Mechanical, Material Forecast and Unit Wiring we had reached our goal—every last resistor, capacitor, washer and knob counted and labeled. Thanks to all of you for your help.

Kit prep has now worked one year with the Batch System and nine months hand-in-hand with Material Forecast. We have enjoyed most of our problems, trials, and tribulations or at least have seen the necessity of our various changes and looked on the funny side of them. Much smoother sailing is predicted and we will be organized for good old inventory time next year.

Three of the girls and their families enjoyed new homes for Thanksgiving. **Mary Lindley** just moved in time for dinner, to her new address in Tigard. **Violet Hawes** and husband **Fred** (Unit Wiring) with their two boys moved this summer. **Connie Luch-enback** moved in November to a home in Reedville they had built for them.

Hazel McGee is still on loan to Jack Hughes in Pre-production.

Esther Sipe volunteered to help us for another three months. She is on loan from Cables.

Hazel Love returned to Component Test from Production Engineering. She won't tell what she learned—just says call me Transistor Love.

After inventory news: **Sally Watt** forgot to eat dinner before the party and

then—she forgot what goes with orange juice. Monday was a long day she said.

Berly Hutchins has her letter written to Santa. She wants a new typewriter just like Monte Officer's in Special Stock.

Minnie Berger is expecting a Christmas package early.

Jennie Herb spent Thanksgiving with her family—seven children and 16 grandchildren. The youngest, **Lisa Kay**, was born November 12.

Swing shift has been discontinued in Component Test. **Erna Lohr** is on loan to Accessories on night shift.

Last we heard **Vee Herr** couldn't find the turkey stuffing for her Thanksgiving Eve party.

CAPACITORS

Congratulations to **Ruth Lukens** and **June Wooldridge** on the 200 pins in bowling after four long years of trying.

We welcome little Miss **Susan Mae Greco** who arrived on November 7 weighing 6 lbs., 10 ozs. **Ray Greco**, the very proud father from Component Production Tooling, is wearing a big smile that refuses to come off.

A caravan of Tek workers went to **Lorraine McNiel's** new home on November 7 to help get ready for furniture, which they moved in the next day. Their services were very much appreciated by **Lorraine** and **Jess**. They have promised breakfast for the whole crew of helpers a year from now.

Elaine Wiley left the day after Thanksgiving to make her home in Long Beach, California. The entire Resistors department had a surprise lunch for her at Tod's Village Inn on her last day of work. Good luck, **Elaine**, and be sure to let us hear from you.

The following girls have been loaned to Accessories: **Barbara York**, **Barbara Hart**, **Virginia Cornilles**, **Florence Sandberg**, **Pat Morrison**, **Louise Jones**, **Beverly Christensen**, **Harriet Persels** and **Edla Borgen**. We hope you enjoy your visit girls, but remember the Capacitor department is your home and we are looking forward to your return.

Betty Beguin has transferred to Advertising, and **Carol Pulsinelli** has transferred to Delay Lines.

Phyllis Wong was in a Chinese opera for a music club in Seattle. She received a trophy for her part as the leading lady, and we're all very proud of her.

Judy Potts reached the ripe old age of 21 on November 20. She was honored by the Capacitor girls with lunch at Tod's Village Inn. She also received a bottle of beer and a cigarette to be displayed as a token of her age.

A party was held November 21 by the Capacitor department at the Leedy Grange hall. The evening was spent playing bingo and dancing. There were about a hundred people present including several alumni whom we enjoyed seeing. A grand time was had by all and we are looking forward to the next party.

Annoyed at the noise resulting from some remodeling in our department by **George Rickman**, **Dorothy Melzer** solved the problem by stuffing paper in her ears. The hat was an added attraction donated by some of the girls. It just shows that with a little head work, a lot of problems can be solved.



Ham Radio NOTES

By EARLE PAHLKA

At our last meeting, November 20, officers for 1960 were elected:

President—Byron Witt, W7VOK
Vice President and Station Custodian—Paul Buchco, W7QKQ
Treasurer—Al Stewart, W7QND
Secretary—Dick Sakrisson, W7NAO
Activities Manager—John South, K7COQ

After the election we heard a delightful talk by Dr. Charles Dockhorn, USN, K7GIE, about single-sideband operation. His talk was based on his own experiences and observations and was generously sprinkled with his own subtle humor.

Doc is a member of the Willamette Valley DX Century club, whose members must each have worked at least 100 countries on the ham bands. He invited club members to visit a meeting of his club whenever it can be arranged.

Attention, all hams in Tektronix field offices! The club members are interested in contacting our field people, so how about sending in all the dope, including call sign, QTH, bands operated, and operating times?

Send the information, along with your QSL card, to any officer or to your reporter.

Albuquerque has been heard in Portland quite frequently, but no one has yet heard K5GOJ. How about it, Brian?

Midwest stations are worked easily on 15 meters, but we have not heard from Bob Seaberg, K9LYL, or any of the others.

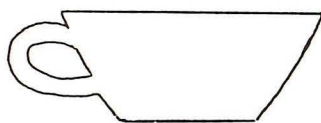
John West hasn't been heard in a long time. How about you fellows giving out with a "CQ PORTLAND" once in a while?

Byron Witt really does get on the air once in a while, because I had a QSO with him on 11-29-59. Hi.

Tom Curran, W7UAB, still wishes he had a beam for his 40-meter CW work. Gene Single, K7IUN, has really been collecting a lot of states on 80 meter CW.

Jim Strickland, W7SEZ, hasn't been seen too frequently. Guess he's pretty busy now that he is president of the largest ham club in the area, the Portland Amateur Radio Club. That club has been doing a lot to help prospective hams by conducting classes each week down at the Oregon Museum Of Science And Industry.

Don Thiessen, W7BBH, was heard recently working some DX. How many new ones did you get, Don?



COFFEE BREAK

... WITH TOM WILLIAMS

An employee delegation selected at random to attend the U.G.N. Awards Dinner with me was comprised of Group Representatives **Jim Hunt** (Warehouse), **Charlotte Peterson** (Ceramics), **Al Berger** (Printing), **June Wooldridge** (Capacitors), **Aase Rhoads** (Unit Wiring), **Aloha Jernigan** (Shop), Chairman **Bob Hart** (Finals), **Dale Palmer** (Test), and **Erwin Ashenbrenner** (Mechanical Fabrication Division).

Mike Brand, loaned executive for U.G.N. from Tektronix was unable to attend but Tek represented in still another way, by **Boyd Lewis**, vocalist with the Bohemians who entertained the packed ballroom of the new Sheraton Hotel the evening of November 24.

Seniors of the Electrical Engineering Department of OSC (84 of them) with headmaster Dr. Louis Stone toured the Beaverton Plant on November 25. Guided by former OSC men **Henry Bahrs**, **Cal Hongel**, **Gene Single**, **Oz Svehaug**, **Don Calnon**, **Nelson Hibbs**, **Hiro Moriyasu**, **Dick Schmidt**, **Wayne DeVaul** and **James Manuel**. The groups were given an operational demonstration by **Jim Strickland**, Instructor in our Field Training Department, and enjoyed a brief presentation by **Jean DeLord**, head of our Physics Research Department, on the development of the tunnel or Esaki diode which was set up for demonstration on a Type 575 by **Tom Hutchins**.

Groups such as this represent future possibilities for Tektronix on two fronts. They may become employees or entering other fields become users of our scopes in new fields of application.

Irv Smith, Employment Manager, and **Bill Bessey**, Personnel and Training Counselor, showed a group of 12 counselors from Oregon State Vocational Rehabilitation Center in Portland through the Tektronix plant on November 23. Object of this tour was to give the touring group a clear idea of the types of jobs and skills required in performing them.

One of our field engineers visiting the plant recently dropped off this tid-bit on the subject of probes, which should bring a fleeting grin to the mug of a few people whose problems have overshadowed a normal light-hearted approach to engineering challenges.

A visit to one of our military users brought our brave "fielder" face to face with a procurement man who said "good morning" and in the same breath mentioned something about "probes". Already a wearer of two service stripes and a badge of membership in the Order of the 610, our stalwart braced for a blow.

But not so—"Come with me into the wardroom—" sez he— and let's toss a game of darts!" Surveyed probe bodies, it seems, make excellent dart material, perfectly balanced for the best trajectory.

Denny Nelson, W7UHF, is preparing to move to a new and larger home. Did you get a still higher QTH, Denny? By the way, your call with a "K" in front was heard on 15 meters from somewhere in Arizona. Also heard was K3COQ so John South, K7COQ, was looking for him.

Dave Robertson, K7GJQ, has been appointed chairman of a committee "to put a six meter rig in the shack". Dave was observed at the ham shack on recent Saturday working like mad to clean the place up. Thanks, Dave.

Apologies to **Scott Reekie**, whose call appeared incorrectly in a recent edition of Tek Talk. His call is K7JHH.

Next meeting of the club will be held December 18. Scheduled to talk on facsimile transmission is **Don Bunker**, W7ZB, of Associated Press. Don will use actual facsimile equipment with his talk.

Statistics

MARRIED—

Roberta Jennings (Unit Wiring), November 24.

Melva Cline (Mechanical Assembly) to **Albert Zimmerman**, November 22.

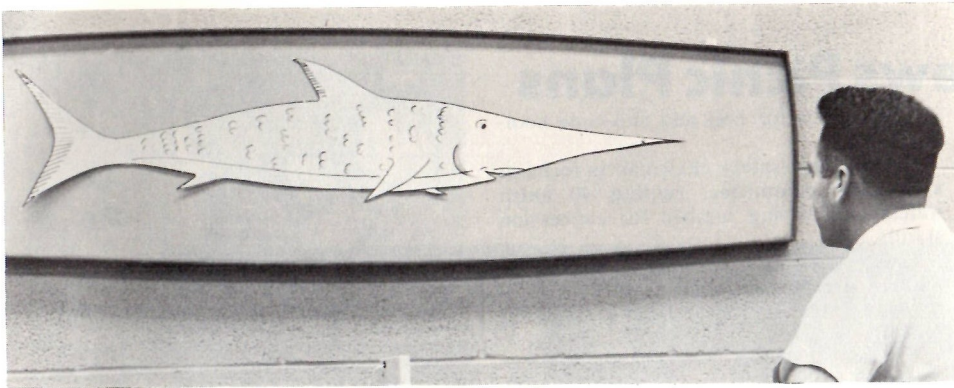
BORN—

To **Evelyn Dillman** (Assembly), boy and girl twins, **Keith Harris** and **Kelley Susan**.

To **Mr. and Mrs. Ted Woodhouse** (CRT), a boy, **Bradley James**, November 21. Weight: 6 pounds 13 ounces.

To **Mr. and Mrs. Jack Schaller** (CRT), a boy, **John Jay**, November 30. Weight: 8 pounds.

To **Katie Case** (Instrument Service), a boy, **Scott Avery**, November 19. Weight: 7 pounds 9 ounces.



THERE'S A NEW plaque board in the Beaverton lobby. It's shaped sort of like a surfboard and sort of like a fat cigar, but most probably like a trophy mount.

In its middle some waggish Tek has pasted a big paper fish and the message, "This is the one that got away."

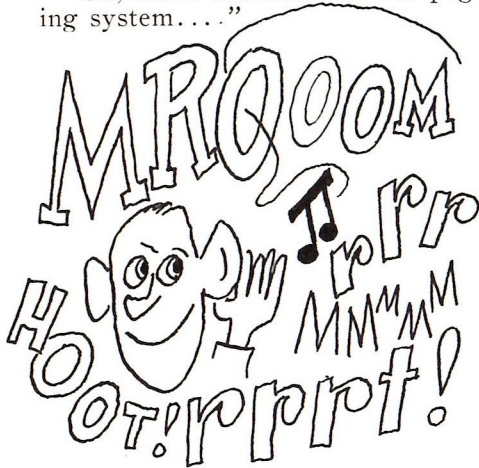
TALK ABOUT bedlam, the noisiest Tek location now going is the boiler room at Beaverton. When all the furnaces are putting out, it sounds like World War VIII.

Above all the booming and roaring, a visitor soon hears another sound, one he can't quite make out. It varies, and sometimes goes tum tum mmm mmm te tumpa tumm, in various tones.

"Whatzat noise—tum tum mmm mmm te tumpa tumm?" the visitor asks, doing an imitation.

Answers the boiler room man:

"Oh, that's the music on our paging system...."



MILITARIZED PRODUCTS folks, busy at work in amongst the boilers, are used to the racket, loud as it is. They've set up all sorts of machines to boil, freeze, bash, and jiggle oscilloscopes and thus cook up something the army might want to buy.

They had a 945 on the vibration

TEKS

table the other day, joggling the bejabbers out of it, while all the furnaces were hooting up their utmost. "FOOOOMM!" they went (approximately).

Frank Maniatis, watching the scope jounce around, lifted a finger and announced:

"I hear a rattle...."

PAGING PEOPLE in the boiler room must be tough. But even in the Sunset plant there are places where it's hard to hear. The nasty report that somebody stuffed a sock in the PA speaker has been proven naught but a rumor, however.

An important message was broadcast the other day that nobody seemed to hear. So, as a Tek Talk public service, here it is in print:

"Attention, please...."

"Will all glor mnyrrhr gom fazhr to the shujj fmf ebermum as soon as possible? Thank you."

LAST ISSUE told about some troubles the Human Research group and recreation committee had while conducting their picnic survey. These included little children eating the questionnaires, etc.

On the other hand, returns sometimes dropped from the sky. Rec committee chairman Harlow Loucks drove home one day and found a questionnaire, all filled out and everything, lying in the entry road to his house.

Harlow is grateful, if baffled.

DICK MANNING, Credit Union manager, says he's not just sure whether his office gals wished him a happy Thanksgiving or not.

When they went home November 25 they told him:

"Eat lots of cranberries...."

HAD A NEWS story set to go about George Roussos (Engineering), saying he'd been here 10 years.

After scrounging up data by pestering any number of people (precisely, three), including Leon Prentice (Mechanical Engineering), Sharon Caley (Personnel) and George himself, we got a call from Merna Faull of Personnel, with a correction:

He hasn't been here 10 years after all.

With this amendment, the story wouldn't be as newsy.

It might start out:

"George Roussos, Engineering, recently didn't celebrate his 10th anniversary at Tek...."



GEORGE IS a novelty—an electronics man with dental school training.

Many a tooth-tugger dabbles in hi-fi in his spare time. Maybe George has dentistry as a hobby.

Active in Credit Union, Beggar's Dozen investment club and United Fund, he's a photographer, hi-fi addict, choir member, interested in spectator sports and good books.

He's 33 and single.

And that's what the news story would've said, if we'd run it.

Committee Reviews Picnic Plans

(A survey of Tektronix employees has been undertaken co-operatively by the recreation committee and our Human Relations group, to determine attitude toward the annual family picnic.

Here, the vice-president of the recreation committee presents some background material, explaining how the annual picnic is planned.)

By Don Pratt

As the picnic draws closer, adult and children's game chairmen begin making plans for the games—how many and what time they'll be played.

From this decision they derive the prizes they will need. Then they submit the prize list to the prize chairman, who purchases all adult, children's, bingo and door prizes.

500 Different Prizes

In the meantime the refreshment chairman is busy purchasing sno-cone machines, cotton candy machines, 400 dozen ice cream bars, 400 cases of canned pop, 40 gallons of sno-cone syrup and 5500

pounds of ice for pop and sno-cone cooling.

Parking and safety chairman is forming a parking committee, renting 40 extra toilets and buying lumber for concession stands.

Rides and entertainment committee is making arrangements for ponies, merry-go-round and all special rides and shows, if any.

Finance chairman receives all invoices and pays all bills.

About two days before the picnic, all co-chairman and their respective committees proceed to the park for deciding where the games are to be played, the rides placed, refreshment stands set and toilets located.

The day before the picnic, the committees head for the park again to build refreshment stands, mark game boundaries, blow balloons for the games, clean the dance hall, buy straw for children's games, build the pony rings, supervise installation of rides, hang signs, mark the ball diamonds, see that the park is clean and the grass cut and set up the public address system.

Picnic day, all committee members are hard at work running the games, handing out refreshments and seeing that everything is running smoothly.



FRITZ VON Pilgrim (foreground) and Wayne Holm of Space Technology Laboratories, Los Angeles, check out guidance equipment for tracking the Explorer Paddlewheel satellite. Prominent is a Tek rack-mounted scope.

Plant Will Close Down On December 24

To extend the Christmas holiday for Teks, December 24 has been declared a plant shutdown day.

This allows employees four days, Thursday through Sunday, to enjoy Yuletide festivities.

Tek Seven-Man Footballers Capture Minor League Title

Tektronix' seven-man football team, sponsored by the recreation committee, successfully ended the 1959 Portland park league season by capturing the minor division title. With it went a large engraved trophy for the squad and a small one for each player.

During the season's regular play, the team defeated Portland Fire Fighters, Li'L Sandy's and Standard Oil (the last

two by forfeit) and lost to Priestley Oil, Happy Hour Tavern and Jerry's Tavern.

Going on to minor division tournament play, they beat the firemen 25-0 and Happy Hour 8-6, to win the trophy.

Players included:

Dale Garrett, Gale Kingsbury, Dick Zschoche, Tom Kalimanis, Roy Karr, Dick Place, Lou Lofland, Bob Messner, Dick O'Brien, Delano Dalesky, Mike Gage, Nick Hughes and Tom Cox.



THESE ARE Portland park league's minor division seven-man football champs, from Tektronix. They are, from left(front row): Dale Garrett, Gale Kingsbury, Dick Zschoche, Tom Kalimanis, Roy Karr, Dick Place and Lou Lofland. Back row, Bob Messner, Dick O'Brien, Delano Dalesky, Mike Gage, Nick Hughes and Tom Cox.

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