

TUDOR

NEWSLETTER

SPRING 1977

TUDOR ANNIVERSARY IN BOISE

Tudor Engineering Company marks its tenth year of Idaho operations this year. The Boise office of Tudor Engineering Company was established in 1967 at the present location, 1802 N. 33rd Street, following the company merger of Toothman and Associates with Tudor. During this past decade, the Idaho office of Tudor has established itself as one of the major engineering firms of the region. The firm maintains a local staff of forty specialists engaged in the practice of Engineering, the Environmental Sciences, Surveying and Planning. Varying assignments undertaken cover the broad fields of Municipal Engineering, Transportation Engineering, Land Development Engineering and Surveying.

Noteworthy regional projects include the design and construction management for the West Boise Sewer District's \$13,000,000 capital improvement program; the development of a restoration plan and financial recovery program for the restoration of Barber Dam; preparation of the Flood Insurance Studies for Blaine, Bingham and Bannock Counties; and the design of irrigation and access facilities for agricultural land development under the Desert Entry Program totaling more than 150,000 acres.

(Excerpted from Boise's Journal of Commerce)

BUS FACILITIES

In association with MBT (formerly McCue-Boone-Tomsick) and the Architectural Association of Santa Clara, Tudor Engineering Company is providing industrial systems services to Santa Clara County in the design of extensive facilities for bus maintenance. As industrial planning consultant, Tudor is assisting in the development of shop layouts, work flow, equipment budgets, equipment layout, specifications, and special studies for all phases of design. The end product of Tudor's effort will consist of equipment layout drawings, schedules, and a complete set of contract specifications for all bus maintenance equipment to be installed in the proposed facilities.

Jim Meyer initiated this work. Project Manager Ken Heilig is being assisted by Jim Albert and Grant Larsen in the preparation of budgets, specifications, and estimates.

MARTA PROGRESS

In Atlanta visible progress is now apparent on many of the design efforts that Tudor has participated in. Over \$400 million of construction contracts have been awarded. The low bid for the Five Points Station in which many Tudorites worked on temporary assignment to PB/T was approximately \$3 million below the engineering estimate of \$43 million. The three lowest bids were within 1.5 percent of each other. On other jobs, the Arizona Avenue Grade Separation is approximately 80% complete and the Avondale Yard is approximately 60% complete.

Below are construction photographs of the first aerial structures in Avondale Yard.



A panoramic view of the yard showing construction sequence and retaining walls.



A close-up of the single track structure.

F.I.S. FIELD WORK

Schedule pressure on the Seattle Office's Flood Insurance Studies recently caused a field crew consisting of Gerry Gibney, DeWitt Jensen, Joe Hofbeck, Harry Hosey, Basil Kattula, Randy Radock and Dave Thompson, to set out for Lewis and Cowlitz Counties with the goal of placing pre-marks for the aerial photography. Some 250 marks were to be painted along highways or set off road with white plastic.

Washington spring weather consisting of rain, hail and strong winds meant most of the marks had to be set off road. This did cause some troubles for the city members of the crew. After one day in the field, clad in penny loafers, Basil decided a pair of boots was in order. DeWitt was dismayed when, to his discomfort, he sank to his knees in "unsuitable material" in a cow pasture.

The rain caused some troubles in travel on back roads. Gerry and Randy thought they would have to abandon the truck and swim from the middle of a small lake on one of those roads. Joe, Dave and Harry had to back down snow blocked roads at higher elevations in the eastern portion of Lewis County.



MUNI METRO ACCESS STUDY

Tudor is conducting a unique study for the San Francisco Municipal Railway in association with MBT Associates and Barrier Prevention Associates of San Jose. The study focuses on providing full handicapped accessibility to the MUNI's new light rail vehicles (LRVs). Handicapped groups have suggested that hundreds of "mini-platforms" be constructed at streetcar stops to allow wheelchair access to the new streetcars. The consulting team is analyzing the feasibility of this recommendation as well as other possibilities.

In one interesting development, a mock up was constructed to test the ability of a person in a wheelchair to cross a gap approximately 4 inches wide from the platform into the new LRVs. Most volunteers were able to negotiate the obstacle successfully.

Jim Meyer is manager of Tudor's efforts, Gary Weinstein is project engineer, and Romulo DeLeon has assisted with graphics.

BOMBS AWAY

Date: January 11, 1977
Location: A snow swept knoll in Northern Wyoming
Assignment: Site survey of the Deaver Water Treatment Plant
Crew: Peg McMullen, Greg Larson, and Jerry Crews
Temperature: 10° F.
Wind: Out of the west

The cold air is suddenly broken by the shrill whining of jet engines being accelerated. A quick glance to the sky reveals a B-52 about 1500 feet off the ground, bomb bay doors fully open. The crew looks at each other, shrug their shoulders and resume the survey. Wait---It's coming in again. Sure enough, every 30 minutes or so a different bomber would go roaring over the plant with its bomb bay doors open.

Needless to say that by quitting time, the crew could not wait to find some knowledgeable Deaverite to explain the happenings. "Quite simple", they were told. There's an oil tank in Byron (10 miles away) which is instrumented to evaluate USAF Bomb Crews from all over the Midwest. Fighter jets and bombers routinely "bomb" the tank and Deaver is directly in the flight path.

TRIDENT MAGAZINES

What's built out of concrete, 81 feet long, 26 feet wide, 16 feet high, buried underground and has a door that weighs 12 tons? A missile motor magazine for the TRIDENT submarine base near Bremerton, Washington.

Tudor-Seattle did the structural design for these very unconventional structures as a sub-contractor to Keller and Gannon of San Francisco. These magazines are intended to hold the TRIDENT missiles before they are loaded in submarines. About 100 separate magazines will be built before the Navy base is fully operational. The construction was phased into three increments, two of which are already in progress.

Structural analysis of the earth covered arch shape was done by computer for several cases of earth and live loads. The concrete floor was proportioned to hold steel wheeled dollies which run the length of the magazine on tracks, conventional tractor-trailer combinations or a special rubber tired missile carrier. The huge door, 25 feet by 16 feet by 1 foot thick, looks like the roof of a carport until it is lifted into place. The door was designed by dynamic methods to resist accidental blast loadings imposed by detonations of an adjacent magazine. The door is supported at the front of the magazine by a motorized overhead trolley system to allow the door to be opened and closed.

Seattle office designers on these buildings were Dave Thompson, Randy Radock, Basil Kattula and Joe Hofbeck.

TUDOR-LEWISTON

The Boise office is undertaking an expansion to the north. A branch office is being opened in Lewiston, Idaho, which lies just east of the Idaho-Washington border at the confluence of the Snake, Clearwater and Columbia Rivers. Steve Alters will be moving from Boise to assume the duties of Engineering Manager of the Lewiston operation. Services offered will include sewer, water and street work for municipalities, subdivisions, road design for timber sales, services to the Bureau of Indian Affairs, the U. S. Forest Service, and the continuation of our relationship with the Lewiston Orchards Sewer District.

WEST PORTAL STATION

The cozy little West Portal community in San Francisco located at the west end of the old Twin Peaks streetcar tunnel is undergoing a major change of scene. After planning and design studies dating back to 1961, the new West Portal station for MUNI's proposed "new look" is now under construction.

This work is the last major construction package under the original BART program. Many don't know that the BART program included, in addition to the main "high-speed" lines to Daly City and the East Bay, a major improvement to San Francisco MUNI's downtown streetcar system. The Market Street streetcars are soon to be relocated into the new subway which BART has built for them running from near the Ferry Building to the Twin Peaks Tunnel. Most of the streetcar subway is now complete, a good part having been constructed along with BART in the downtown Market Street area.

The West Portal Station is the last to be built and lies at the end of the subway part of MUNI's planned system. Beyond the Twin Peaks tunnel, MUNI streetcars will continue to operate as at present, on tracks in the streets "in mixed traffic". (See related article on MUNI Access Study.) The station is being built in a former park and playground area which adjoins the West Portal Elementary school. The design of West Portal Station was a Tudor assignment under PBTB. The architects were Reid and Tarics in association with Tallie B. Maule. The design period has an "off again, on again" history with detailed design being started in 1969 and the final design being completed in 1974. The design reposed "on the shelf" for about a year until BART advertized and awarded the contract for construction early in 1976, a \$6.4 million job, to William Simpson Construction Company. Tudor's present assignment is to provide "standby" engineering advisory services ("design services") for the BART Resident Construction Engineer.

When work began in July 1976, one of the first tasks the contractor had to undertake was the demolition of the old portal structure. This structure was a handsome edifice, in keeping with the practice when it was built (1917) to monument major public works, and was a dominant part of the scene in the community. The architects, Reid and Tarics, were requested to develop a plan for reproducing the structure--photographically--as a large mural on one of the interior walls of the station.



The original edifice.

Another interesting construction consideration results from the Twin Peaks tunnel being the main streetcar route from downtown to the west side of the City. For this reason streetcar service cannot be discontinued during the construction, and the contractor must carry out the construction with streetcars operating through the center of his job most of the time.

A recent problem involved a long standing environmental commitment made by BART to save several attractive, old pine trees near the entrance area. Apparently, during construction, several main roots on two of the trees were severed by the contractor in conjunction with nearby foundation work. BART's Resident Engineer became concerned, not only about the welfare of the trees but about the stability of the trees--their ability to stand up if buffeted by high winds. Tudor was contacted by the Resident Engineer concerning the problem and obtained the services of a specialist to recommend a program of special feeding and watering, spraying against insect damage, pruning--all of which must be done until the trees have recovered from the shock of the root damages, possibly several years.

The final design was produced in several stages supervised by Frits Fenger, Don Moore, and Heinz Mueller. The current design services work is being handled by Ocie Williams under the general responsibility of Bob Ganse. Bill Buckland and Heinz Mueller provide advice on special problems.



After several hundred feet of demolition, and showing continuing operations.

TUDOR-BOISE . . .

. . . BASKETBALL

The recent basketball season brought a lively Tudor team to the courts of the Boise City Recreation League. In its first season of play, the new team scored more total points than its opponents, even though the record ended at three wins and six losses. The season was studded with big wins, and several close, heartbreaking losses that could have gone either way. Scraping against heavyweights such as Boise Cascade, Hewlett Packard, and Morrison Knudson; Tudor showed real poise, and will undoubtedly be a strong contender in coming seasons.

In tournament play Tudor battled to the semi-finals where they were edged by a strong and experienced Morrison Knudson team. Morrison Knudson went on to take the tournament. Although not blessed with great height, Tudor's quickness, agility, and razzle dazzle gave their opponents many an anxious moment.

While star forward Roger Mason was out several games due to a leg injury, the team maintained its cool with the strong rebounding of forwards: Dave Milan, Gray Ames, Henry Mott and Jim Lundquist. The exciting ball handling and shooting of guards: Sabin Landaluce, Adrian Moody, Ted Purcell, Rick Orton, and Leroy Heitz kept fans on the edge of their seats.

The team provided great entertainment, and was well supported by Tudor employees and their families. The excitement of the season wound down with a pizza and beverage party where a few old wounds were licked and new resolutions made.



Standing from left to right: Adrian Moody, Leroy Heitz, Sabin Landaluce, Ted Purcell, and Neal Eager. Kneeling from left to right: Roger Mason, Jim Lundquist, Gary Ames, Dave Milan, and Henry Mott.

. . . PROJECTS

SUBDIVISIONS

Les Ankenman, Don Payne and Randy Witt have been busily working with subdivision clients. Land development in Boise shows no sign of slowing down and neither does Don's computer, or Randy's Leroy pen. This work has also kept the field survey crews going at a brisk pace.

SEWER DISTRICT

The West Boise Sewer District Projects are proceeding well. Three projects are under construction with two over 50 percent complete. The main interceptor project is about 25 percent complete. A 260 lineal foot bore with 42 inch steel casing and 24 inch diameter ductile iron carrier pipe has been holed through. The bore was accomplished at about a 10 percent slope from the lower end and holed through right on the button. The contractor has been installing 30 inch diameter concrete pipe at the rate of approximately 300 feet per day. Sabin Landaluce, Henry Mott and Dave Torgeson are watching construction. Neal Eager, Bob Beal and Frank Paden are readying the final three jobs for bid.



3CY bucket backhoe over 16 foot deep trench.

WATER TREATMENT PLANT

The City of Horseshoe Bend, Idaho, received bids for their water treatment plant, and it is anticipated that work will begin by April 20. The capacity of the plant is 1.5 million gallons per day. An intake structure will draw water from the Payette River. From there it is pumped to a building where the addition of alum and polyelectrolite is accomplished, filtration carried out and chlorination prior to the water being pumped into storage tanks and the distribution system. The project is being funded by the Economic Development Administration (EDA).

KUNA SEWAGE SYSTEM

A Facilities Plan is being prepared for the City of Kuna. Bob Stannard has completed preliminary design of the collection system and land disposal project. The project is proceeding well ahead of schedule, and we expect funds will be available late this year for design of the sewage collection and treatment facilities.

PAYETTE LAKE WATER & SEWERS

Harrah's of Reno has acquired a mobile home and recreational vehicle park on Payette Lake, McCall Idaho, and Tudor-Boise has been retained to design its sewer and water systems. The park is presently served by an extremely inadequate septic-tank system, and portions of the water system are strung through the trees. Bob Beal is putting this project together which includes a sewage lift station and force main for construction this spring.

FLOOD STUDIES

Work on the Flood Study for the Federal Insurance Agency in central and southeast Idaho is proceeding on schedule. Leroy Heitz has been attending public meetings in Sun Valley, Ketchum and Hailey to present the results of our studies in those areas. Brian Grant has been busy putting reports together. Paul Kunz is usually at Boise Cascade's Headquarters extracting hydraulic data from their computer or hidden among the debris deposited along the banks of the Big Wood River in the Sun Valley-Ketchum area.

LABORATORIAN, TAILOR & STUDENT? . . .

. . . jo mallard



During the past two years you have probably noticed a line or two about Jo Mallard and the Environmental Engineering Laboratories. We figured that it was time to let you know what is actually done at the chemical, physical, and bacteriological laboratories which are housed in a separate building at Tudor-Boise.

Analyses are run for both public and private entities on wastewater (sewage) and water. Common wastewater tests for EPA and the State include BOD (biochemical oxygen demand), suspended solids, and fecal coliform bacteria. Individuals often bring their own samples of water to the lab for analysis as to metal content or contaminant bacteria. Jo's "baby" is the atomic absorption spectrophotometer. It is used to measure heavy metals in water, using hollow cathode lamps specific for each metal tested and a maze of complicated electronics.

Environmental Engineering Laboratories acts as a complement to Boise's sanitary engineering activities, as it assists in determining waste loads for wastewater treatment plant design as well as performing tests for required routine monitoring of wastewater and water.

Before coming to Tudor, Jo, a graduate of the University of Idaho, spent a couple of years in North Carolina working in a wastewater treatment plant laboratory while husband, Herb, completed his obligation to Uncle Sam. She is looking forward to more lab business with increased monitoring requirements and lab expansion in other areas, such as soils testing. In addition, there's a new baby, Herb and Jo's first, anticipated this summer, after which she hopes to combine motherhood and continued work in the lab.



. . . ocie williams

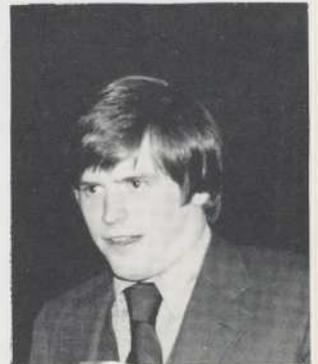


Ocie L. Williams was born in Ross, Marin County, California. He moved to San Francisco when he was eight and he now lives in Oakland in a recently purchased home with Percilla, his wife of three years. Ocie has been a design engineer at Tudor's San Francisco office for just about four years. Ocie attended school at City College and received his B.S. in architectural engineering from Cal State Polytechnic University. Ocie's first assignments with Tudor were related to civil and structural design for projects such as MARTA, BART, and the Hawthorne Demilitarization Facility in Nevada. Recently he has been involved with design services and general revisions of BART's West Portal Station and in coordination of shop drawing transmittals for the MARTA job. Ocie spent a few months in Atlanta on the MARTA project last year; his first visit to the South--a place he found most agreeable.

Some of Ocie's time away from the office is spent on various sewing projects. Ocie is something of a tailor having attempted a top coat. He enjoys jazz music and is also adept in the kitchen; lucky Percilla!...Ocie stays active in sports as well, participating in volleyball events and Tudor's daily ping pong ritual. He thought about coaching children for a living some years ago, but now will be content to get in the proper shape to race in the annual Bay to Breakers.

. . . dewitt jensen

DeWitt Jensen joined the Seattle office in June 1973. After working for the summer on the Spokane River Basin project he left to return to finish his degree at the University of Washington. In June, 1974 he rejoined Tudor where he worked on such projects as the MARTA Retaining Wall Standards and the Portland Flood Study to name a few. After working for about 1½ years, DeWitt took a leave of absence in order to complete his masters degree in sanitary engineering.



After finishing everything except his masters thesis, DeWitt received the urgent call from Keith Bull asking if he would like to go to Atlanta and work on the Avondale Yard project. Two days later he saw his first glimpse of the South. Since arriving back in Seattle (which DeWitt claims is the best place in the world to live), DeWitt has been up to his knees in water working on the various flood studies in the office. Literally, that has included surveying study streams and obstacles...DeWitt is still struggling to finish his thesis. Hopefully it will be completed in the next few months.

TUDOR FAMILY NEWS...

... boise

...Congratulations to David Milan and Denise Paquette who were married on Saturday, April 2 in Boise.

... riverton

...Greg and Lynn Larson were team members of the Riverton "Anything Goes" Contest held at the Fremont County Winter Fair. Their assignment - toss pies over a nine foot rail ever so gently so that your teammate could catch it intact. Riverton walked away with the grand prize - the hind quarter of a model beast of burden. Lynn reports that coconut cream pie works reasonably well as a hair softner but is terribly hard on clean glasses.

... san francisco

...Dave Alden came to Tudor in November after having recieved his M.S. in Hydraulics from U.C. Berkeley in June. As a student Dave was active in ASCE and Tau Beta Pi.

...Gail Hayashi is a new addition in the accounting department. She is a ping-pong enthusiast and took second place in the San Francisco Industrial League Tournament held in March. Gail is continuing here studies in accounting at City College in San Francisco and is also a student of martial arts.

...Heather Hayes has joined our staff as a part time employee. She assists with the secretarial chores. Heather has worked previously with our friends in New York--Parsons, Brinckerhoff Quade and Douglas; and does pottery in her time off.

...Joseph D'Amico is also a new part time employee. He alternates with Heather in meeting the typing requirements. Joseph paints with water colors in his time off.

...Lemma Wendim-Agegnehu, now a San Francisco resident, was born and attended school in Ethiopia where he earned a scholarship to study in Moscow, USSR. Lemma received a Ph.D. from Colorado State University in water resources engineering. His expertise is in modeling water resources systems.

...Steven Wong has assumed the duties in the busy mail room, including maintaining supplies, xeroxing, and banking. Steve is now a permanent employee having been part of the On-the-Job-Training program, which has proved so successful in the past for Tudor.

...Wayne and Joy Nakamoto have announced the birth of their first child, a boy--Marc, on March 10.

...Chuck and Charl Spinks have announced the birth of their second child, a boy--Timothy, on March 28.

...The word is out from Hawaii that Gloria Aguilar has become a grandmother for the first time. Her daughter-in-law, Martha Pinell, gave birth to a baby girl on Sunday, March 20.

...Don Rose, Tudor's staff geologist, has been on leave of absence while acting as a visiting professor at Cornell University in New York. He has been teaching two classes: a graduate course in dams and tunnels and an undergraduate course.

...Ken Heilig has obtained a Civil Engineering license from the State of California.

...Commiseration goes to Janice Downey who, on her first time out on the ski slopes of Nevada, had a bad accident and has been several months recuperating.

...Tudor volleyballers, families and friends have been continuing in force on Monday nights. Enough people have been playing regularly to make up two full teams at James Lick School, 25th and Noe.

TUDOR'S TASTERS

At 8 a.m., Saturday, March 19th, a bus sat in front of Tudor's office in San Francisco with its motor running waiting for the last minute participants in what was to be a full day's field trip to northern California wineries. As our leader poured a champagne breakfast for the entourage, the bus departed to pick up the Marin County contingent. Waiting at Larkspur was Gene Altshuler with loaves of bread fresh from the San Rafael bakery. First stop was Beaulieu winery where besides sampling wine, we saw enormous redwood holding vats; then a film, and a chance to purchase wine which most folks did to enjoy along with our lunch in a sumptuous feast outdoors in the Beaulieu courtyard. After lunch we made off to Sterling winery set high atop the green hills near St. Helena, and approachable only by a delightful tramcar ride. Finally we visited Beringer, different from the rest in that the wine was stored underground in casks maintain naturally at a perfect temperature. The caves stopped at a point where the earthquake of 1951 unfortunately buried a good deal of wine. The day ended with everyone in good spirits having had a full day of eating, drinking, talking, relaxing and cutting up.

The day's crew: Joyce and Gene Altshuler, Dave Alden, Dave and Joy Church, Barbara and Jack Cooper, Irene and Don Croft, Mike Goldberg and Toni Ellis, Heather Hayes, Ilhami and Mary Karaca Jim and JoAnn Ricereto, Isabel and Mike Viarnes, Sarah Westsmith, Sunil Yadav, Susan Zoya, Valerie White and Al Parshall.



The TUDOR NEWSLETTER is published by Tudor Engineering Company for the information and enjoyment of its employees, their families, and friends.

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TUDOR

NEWSLETTER

SUMMER 1977



WHARF NO. 7, OAKLAND ARMY BASE

On May 24, the San Francisco District, Corps of Engineers, gave Tudor-San Francisco, notice to proceed with a project to inspect piling and develop contract documents for the repair of Wharf No. 7 at the Oakland Army Base.

Located just south of the Bay Bridge Toll Plaza, the 1942 structure shows considerable deterioration and has been placed under restricted operating procedures until repairs have been made. Because of the desire to restore full operations as soon as possible, the schedule is quite tight, with a 30% submittal due 60 calendar days and a 100% submittal due in 120 calendar days from the Notice to Proceed.

Underwater inspection of the piles has been completed by our subcontractor, Pete Ames. Development of remedial measures is underway. Working with Project Manager, Don Croft, are Anh-Tuan Le, Charlie Tsang, Ocie Williams and Wayne Nakamoto.

ACEC CONFERENCE

The Western Region conference of ACEC was hosted this year by CEC/Montana at Big Sky. Dave and Loreen Toothman, Ted and Pat Purcell, and Jerry and Darrolyn Crews represented Tudor. Ted is president elect of the Consulting Engineers of Idaho, and will take over as president in January, 1978. The keynote speaker at the conference was Arnold Olitt on "Effective Marketing of Engineers Services". Larry Spiller, ACEC's Executive Director of Government Affairs, from Washington D. C., gave an update on ACEC national affairs and current legislation affecting the engineering profession.

DROUGHT RELIEF PROJECTS

The water supply and distribution system for Carey, Idaho is nearing bid. Bob Stannard has been wearing out the 200 miles of roads between Boise and Carey, with some side trips to Hailey and Silver Creek. The most difficult part of this drought relief project will be getting a well drilled on schedule. The drillers in Idaho have had 60 day backlogs on their work. Jim Lundquist has been laboring away at the drawings on this project.

Dave Milan has been watching over the flow equalization project at the western Idaho Fairgrounds. Construction should be complete very soon in time for the late August opening of the western Idaho Fair.

Another drought relief project is for the Fairview Water District near Preston, Idaho. Rick Orton and his crew are hard at work on this project which is similar to that at Carey. Rick's people are also hard at work on numerous small projects. They are providing back-up to Jerry Crews' staff in Riverton, Wyoming, and are looking forward to beginning work on the water treatment facility for Redwood Valley, California, in support of the San Francisco office.

GREEN RIVER BRIDGE

The Fontenelle Bridge over the Green River near LaBarge in southwest Wyoming was a rush design job that the San Francisco office recently completed. The client, Pacific Transmission Supply Company--the exploration division of Pacific Gas & Electric Company of San Francisco, decided that the structure should be completed during the winter season of 1977.

The crash schedule necessitated not only a major team effort during a 3 week period, but also the specification of steel girders rather than prestressed concrete girders. The weather in LaBarge is so cold during the winter that it is desirable not to place concrete under the freezing conditions. Concrete for the piers and abutments will be placed during the warmer weather and the steel will be erected during the colder temperatures. The deck will be of timber planks. The bridge is a single lane, 240-foot crossing having one center pier in the river which is normally 8 feet deep and is subjected to ice build-up. Construction of the pier is anticipated during the dry season when water flow will be minimal.

Bill Buckland was the project engineer. He was assisted by engineers: Anh-Tuan Le, Mike Goldberg, Sunil Yadav, and Heinz Mueller; and drafters: Gilberto Zambrana, Mike Ford, Janice Downey and Don Yamagishi.

IDAHO FLOOD STUDIES

Leroy Heitz' gang continues to crank out reports, flood profiles and flood hazard boundary maps for the areas under study. Bob Mann and Donna Nelson of the Boise drafting department have been hard at work, on the exhibit maps for the reports, while Robert Toothman has been writing the text.

With his workload diminishing on the computer hydraulics for the original F.I.A. study, Paul Kunz has taken to field work in Downey and Bellvue, Idaho, for recently approved extensions in the Idaho contract. (However, he has not, let the computer cool down too much. In addition to his F.I.A. obligations, he has been running stream profiles on the Boise River for local Boise clients.)

TURIMIQUIRE TOWER

Tudor Engineering Company, in collaboration with PMB Systems Engineering of San Francisco, has been retained to prepare construction drawings and specifications for the Turimiquire Intake Tower, a feature of the Alto Neveri Water Supply Development project which will provide domestic and industrial water to the cities of Barcelona and Cumana in Venezuela.

Tudor and PMB are providing design services on the intake tower to Guy F. Atkinson Company, of South San Francisco, who are in charge of the construction of the entire project.

Work commenced in June and will be completed by September. The first deadline required is bilingual procurement specifications and drawings for six 84 inch diameter, hydraulically operated butterfly valves. Project Manager for the job is Roberto Iniguez assisted by Horace Burrier and Michael Goldberg.

WEST BOISE SEWER DISTRICT

Three more projects for the West Boise Sewer District have been bid and construction on these projects is now underway. The most recent bids came in about 5% under the Engineers Estimate, so the District's financing schedule still looks excellent.

The initial three projects, which have been under construction since early this year, are about complete. Tudor's three inspectors, Dave Torgeson, Sabine Landaluce, and Henry Mott will simply move to the new projects.

Frank Paden has been able to keep the design of the last three projects, to be bid in November, on schedule. In addition, he is gearing up to begin preparation of the "Record Drawings" for the completed projects. Neal Eager will continue to provide design services (between his trips to the Briarhill subdivision to watch after construction of streets and sewers there.)

NORTH FORK PROJECT IS ALIVE!

After years of study and negotiations as Engineer for Calaveras County Water District in California, a power purchase agreement was signed by Northern California Power Agency to purchase the entire output from the project. The agreement provides funds to the District to carry the project to the time construction bonds will be sold. The construction cost is nearly \$200 million with an "on-line" date of early 1982. The project, as now envisioned, consists of a diversion dam and 11,000 feet of tunnel; a 235,000 acre-foot reservoir; a second diversion dam, 40,000-foot of tunnel and a 120 megawatt power plant.

The first item required in the agreement was the preparation of a feasibility report which Tudor compiled in one month. Published in early July, it required nearly half San Francisco's water resources group including Bob Janopaul, Dave Willer, Don Rose, Bob Myrdal, Mac McQuigg, Dave Alden, John Wurshmidt, Sunil Yadav, Don Scapuzzi, Frank Chiappella. They were amply supported by Janice Downey, Don Yamagishi, Louisa Bravo, Darryl Tyson, Hernando Orozco, Alfred Korbmacher and Susan Zoya. The next step will be to revise the Federal Power Commission Application.

DEVELOPING WHAT . . .

Les Ankenman, Don Payne, Robert Beal, Randy Witt, and Roger Mason, plus two three-man survey crews composed of Kim Gates, Gary Ames, Doug Bergey, Adrian Moody, Dick Waller, and David Potter are trying hard to keep up with the demand for their services. Land development clients are acquiring land faster than Don's computer and surveyors can plat it. Don has even had to work Saturday's. (Some say it is just an attempt to stretch the card games to one more day of the week.)

ROLLINS POWER PROJECT

Bids were received on the first phase of the Rollins Power Project in late July. The low bid of \$263,123 was \$96,877 below the Engineer's Estimate. The work consists of piercing the tunnel plug in the existing dam, removal of a bulkhead, and installing a tunnel liner valve and dished head. Bob Myrdal was responsible for this activity. He was assisted by Horace Burrier, Mike Goldberg, Heinz Mueller, Don Yamagishi, Alfred Korbmacher, Mike Ford, Louisa Bravo and Gil Zambrana.

This phase is the beginning of a \$7 million, 11 megawatt hydroelectric installation for Nevada Irrigation District. Tudor proposed the project in a feasibility study in 1974.



5 Points Station initial site clearing



East Line Subway - downtown location

East Line Avondale Yard - Single Track Aerial Structure



East Line Aerial Structure near Grant Street Station

MARTA CONSTRUCTION FLOURISHING

East Line Bridge over West Trinity Place and adjoining subway portal section



Construction of MARTA shop at the Avondale Yard



Subway construction in open trench on the MARTA West Line - "Y" visible in background



East Line Subway Portal - Decatur

MONTANA PROJECTS

Tudor recently moved into "Big Sky Country" to take on an assignment from the Montana Department of Water Resources. The State requested that the hydroelectric potential of existing State-owned dams, not already having power facilities, be investigated. A brief review was made of approximately 40 dam sites. Three were selected for more detailed study. Dave Willer is responsible for managing the investigations; Mac McQuigg is preparing the detailed studies with assistance from Harry Hosey, Don Rose and Dave Alden. The initial report will be delivered in August.

In the meantime, Jim Potter has been on the road in Big Sky Country (as he has been in Idaho, Wyoming, and other parts of the Inter Mountain area) scouting the possibilities of new Tudor involvement.

DOWN CARACAS WAY

On June 1st Jim Albert was guest of honor at a luncheon prior to his departure for Caracas. Jim's assignment in Caracas is with PBTB assisting in the construction of the Metro System. The lunch was attended by about 40 well wishers including Beth Janopaul who was meeting Bob for lunch. The jokes were clean but good. And those in San Francisco will miss Jim's red pants, good looks and after hours visits to Shields. Jim was joined by his wife, Jeanette in late July.

Heinz Mueller and his family will be joining the Alberts in August as Tudorites in residence for PB-T-B in Caracas, along with Raul Martinez, towards the end of the year. Miguel Cornejo and his family have been in Caracas for nearly a year.



Jim Albert flanked on his right by Sarah Westsmith and on his left by Barbara Cooper.

SUMMER IN THE SIERRAS

The mellow notes of a Beethoven chorale drifting softly through the tall trees set the mood recently for the concluding day of a Tudor adventure into the wilderness (that music was provided by one of the participants with the aid of her recorder). Composing the intrepid party of nine were: Chuck and Charl Spinks, Dave Church, Sarah Westsmith, Susan Zoya, Dave Alden and Lou Salaber and his two sons, Rob and Ralph. The destination of the four-mile pack trip was Grouse Lake, in the Stanislaus National Forest. There, the party learned about the rigors of survival by having to eat cheesecake from aluminum plates and drinking imported Bordeaux from plastic cups. After two days of braving the wilds of Mother Nature, the group retreated gratefully (and in another sense reluctantly) to the world of warm showers and soft beds.

DYNAMIC PING-PONG

More than twenty San Francisco Tudorites participated in a recent ping-pong tournament held during lunch and after work hours on the sixth floor of 149 New Montgomery. First a singles tournament was held, with Anh-Tuan Le finishing undefeated after frustrating his opponents with his high spinning lobs. Anh-Tuan did it again in the doubles tournament when he and partner, rookie Alfred Korbmacher, surprised everyone by taking first prize.

There is talk of possibly making the ping-pong tournament an annual event, but those who work on the fifth floor hearing the noise and feeling the vibrations generated by the fierce athletic competition upstairs question whether the old brick building can survive further applications of this type of dynamic loading. Don Croft is studying the problem.

SAN FRANCISCO NEWCOMERS

...John Wurschmidt of Redding, California, has extensive experience on bridge and highway projects. He has been assisting on various water resource projects and will be the resident engineer on the Redwood Valley Project. He holds a B.S. degree from Chico State and did graduate studies at Sacramento State.

...Mike Babin is a new electrical engineer with the San Francisco office. His experience in various jobs across the country includes power plant design, electrical heat tracing systems, and cable and control wiring. He received his MSEE from Brooklyn Poly in New York and now lives in San Carlos.

...Roy Silva recently joined Tudor also as an electrical engineer. He is from the East but received his BSEE degree from U. C. Berkeley and attests in having studied civil engineering. He has prior experience with Bechtel, Standard Oil and IECO.

FRANKLY, THEIR NUMBERS ARE 153 AND 162 ...



... frank chiappella

Frank Chiappella has, for 14 years, been Tudor Engineering Company's resident graphic artist who also designs, does structural and mechanical drafting, and is responsible for coordinating the printing of all reports going out of the San Francisco office. Once in a while, Frank has the opportunity to do some renderings which he claims satisfies some of the "frustrated architect" within him.

Frank is one of that rare variety of San Franciscans--he is a native. Frank was born and schooled in The City. Five years ago he moved down the peninsula where he now resides, in San Mateo, with his wife of ten years and his two daughters, ages $3\frac{1}{2}$ and $6\frac{1}{2}$. When Frank was in school, his ambitions were indeed directed towards architecture. After two years, the service intervened followed by the need to seek permanent employment. In the mid-50's Frank went to work for a civil engineer and surveyor, drafting up a planned community. At the suggestion of a coworker, then on loan, he made a move and joined Tudor at another address when it was bustling like mad with all the extra BART personnel. Frank never did much work on BART, however. He spent the first few years at work on the Exechequer Dam with Bob Janopaul. While at work for Tudor, Frank returned to school and received his degree in Industrial Arts. Frank's graphic skills since that time have gotten no end of exercise, and his function within Tudor Engineering Company has become unique.

When Frank is not taken up with activity at Tudor, he is savoring the experience of raising two girls with all its traumas and joys. He and his wife appreciate short weekend trips in and around California, discovering small and gracious towns and one-of-a-kind restaurants, and browsing for antiques. This latter interest was provoked years ago when Frank and Connie, his wife, found the cellar of Frank's parents' house to be full of treasures. That, and the fact that Connie has been a student of interior design, have contributed to a mutual interest. But the two girls are at the center of the Chiappellas' lives, which makes for full and happy lives.



... francois martin

Francois was born in Blois, a small town in the center of France, which is located on the Loire River. The city is famous for its castle, but Francois remembers from his youth the perennial floods of his native town. This early experience in some secret way may have been the reason for his present assignment in the Company. Almost twenty years in engineering have seen him in various capacities. From 1958 to 1961, it was up and down a ladder as an inspector for bridge construction. All the way from rock foundations to the tops of the towers on a cantilever bridge. The years 1961 to 1963 were spent in the municipal field with road design and sewer/water distribution systems. In 1963, the call of the West was too strong to resist, it was "California or else". After a brief stop at DeLeuw, the year ended with Francois at Tudor. For the next six years he would be occupied with the major preoccupation of Tudor during those years, BART.

In the last fourteen years, Francois has become less vociferous and has lost a little hair in the process. Other than that, he retains his inquiring interest in all things and his joy for debate. Raising his family of teenage boys has become his prime interest, noon ping-pong his major daily entertainment, and engineering his supporting hobby. French has remained the language at home. This helps on an occasional trip to Europe, leads to some activities in the local French club and gives Sylvie a chance for some private tutoring. In the future when the family is grown and ping-pong is too demanding, maybe a change of metabolism will make engineering more than a supporting hobby.

GRANT LARSEN HONORED

Grant Larsen was recently honored on two different occasions by the San Francisco Chapter of the Construction Specifications Institute. The first presentation was for his work as Chapter President but having also served as Program Chairman, Vice President, Advisor, Education Committee Chairman, Institute Education Committee Participating Member, Region Education Committee Member of the Joint Continuing Education Seminar Committee of AIA, CSI and Producing Council; he was also presented with the President's Award from the Institute for "CSImanship". Grant has previously received from CSI the Chapter Specification Proficiency Award, the Citation Award, and Education Awards. He is Tudor's resident architect

CONGRESSIONAL BRIEFING

Keith Bull was among 300 participants at a two-day legislative forum focusing on issues of vital concern to the engineering profession. The Engineers' Public Affairs Forum, sponsored by 20 engineering societies, was the first such comprehensive program of overview sessions and specialty workshops devoted to engineers and national legislation affecting their profession.

Featured during the June 7-8 program was participation by Congressional leaders. The Congressmen led discussions on the Carter energy program and the role of engineers in development and conservation of energy sources, voluntary standardization, tax reform, federal procurement, and rulemaking. Tips on the most effective manner for meeting and dealing with legislators were discussed by Rep. Margaret Heckler (R-Mass) at a breakfast prior to a day of personal visits by conferees with their respective Congressmen and Senators.



Pictured is Keith Bull with Rep. McCormack (D-Wash)

CONGRATULATIONS ...

...To Paulette (Johnson) and Basil Kattula who were married on Friday, June 24. The ceremony was held at the First Presbyterian Church in Seattle. A reception followed at the church; punch and cake were served. There were in attendance approximately 150 persons. Also attending was Basil's mother from Baghdad, Iran and his brother from Bristol, England.

A honeymoon followed in Victoria, B.C. and a drive to Sooke, B.C., which is about 25 miles west of Victoria.



BOISE ...

ADDITIONS

...Barbara Iverson and Collette Godfrey have recently strengthened Mildred Richards' secretarial force. Mary Payne is leaving soon. Janet Hale remains the guardian of the front door. Ted Purcell says his biggest problem is keeping the staff cool!...more air conditioning?

TORG'S BELLY

Things may never be the same in Boise at the Torgeson house! On Sunday, May 22, Glenda Torgeson won the Idaho State Mid-East Dancing Contest. This makes David Torgeson the mere husband of the champion, and probably means a larger portion of his check will now go towards coins for the champ's belly dancing outfit.

ENVIRONMENTAL ENGINEERING LAB

Jo Mallard has taken a maternity leave of absence as of July 8, 1977. Margaret Jones is taking over the Environmental Engineering Lab in Jo's absence. She is well qualified and had the opportunity of working with Jo for two weeks before being put in charge.

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TUDOR

NEWSLETTER

FALL 1977

ASCE HONORS PBTB

Designers of the BART System were pleased at the presentation of the special National ASCE award to the project for "Pioneering Design and Construction." Left to right: Louis W. Riggs, President of Tudor Engineering Company; John R. Kiely, retired Vice President of Bechtel Incorporated; John E. Everson, Chairman of the Board of Parsons, Brinckerhoff, Quade & Douglas; and William A. Bugge, retired Project Director of Design and Construction for PBTB.



PRESIDENT'S WORK WEEK

Do you ever wonder how the President of an engineering firm spends a typical work week? Maybe you ask yourself why Louis Riggs seems to be difficult to get hold of these days. The month of September represented a typical work schedule for Louis in which he flew approximately 16,000 miles in three weeks to and from such cities as Caracas, Miami, Atlanta, Nashville and Denver, overseeing contracts and representing Tudor at national conventions and meetings. Louis seems to thrive on this sort of scheduling and indeed amazes fellow employees with his ability to conquer "jet lag" and still put in all those hours at the office.

PB/T AWARDS

On August 3, Parsons Brinckerhoff/Tudor gave a service award luncheon in Atlanta honoring employees' years of service. Eight individuals received 10 year awards and 35 recipients received 5 year awards. Four Tudor assigned personnel received 5 year awards: Oral Conyers, Fred Estep, Bob Ganse and Paul Potter. Gerry Gibney along with six other individuals received special recognition for services performed with PB/T in Atlanta. The award was a handsome plaque designed by Nick Webber. Nick, well known to Tudor staff, was also a 5 year recipient.

OFF AGAIN, ON AGAIN . . . YBC

In November 1976 San Francisco voters passed Proposition "S" which calls for construction of the Yerba Buena Convention Center (YBC). Tudor has been selected by the architectural firm of Hellmuth, Obata & Kassabaum, Inc. (HOK) to provide transportation and traffic input into the design of the underground facility with a capacity of 25,000 persons. Major tasks undertaken by Tudor are the design of at-grade vehicular access road to facilitate auto/taxi/bus/pedestrian circulation as well as the underground truck loading facilities. Jim Meyer is project manager with Joe Eng and Gary Weinstein as principal work-horses.* (*Defined by Webster as "...a steady, responsible worker who assumes a heavy workload.")

WELCOME BACK POTTER

In late September, Paul and Dawn Potter returned to the San Francisco Bay Area after spending five glorious years in Atlanta, Georgia. After recovering from the initial shock of a hyperactive real estate market in and around San Francisco, they finally took the plunge and made the big commitment on their "dream home" in Hillsborough. In the planning and partial implementation stage are several home beautification projects like modernizing the kitchen, adding a breakfast room, recarpeting, painting, etc., all of which should take care of Paul and Dawn's spare time for the next several months...or years.

UPDATE

Stan Froid has had a busy and an interesting year. In connection with the Annual ASCE Convention Stan acted as general chairman and coordinated between San Francisco and New York for this year's national meeting held at the Hyatt Regency in the Golden Gate City October 16-21. With the guidance of New York ASCE headquarters and the aid of the subcommittee chairmen here in town, this year's convention was a smash! Stan has also recently been elected Vice President of the Golden Gate Branch of ASCE.



GREAT HIGHWAY

Due to the construction of a major new sewage transport line along the beach, Great Highway, a road running alongside the Pacific Ocean in San Francisco, will have to be removed and subsequently completely reconstructed. Due to the environmentally unsatisfactory freeway-like nature of the present road and accompanying sand dune control problems, a completely new design has been prepared. Tudor, in association with Michael Painter and Associates, has developed a curvilinear park road in coordination with a beachfront recreational area. The project has been conducted with extensive participation and review and is an unusual case of a roadway designed primarily with aesthetics in mind.

Jim Meyer is providing overall direction for the project, with Gary Weinstein providing technical input and representing Tudor at public hearings.

ANOTHER ASCE EXCELLENCE AWARD

Barclay Simpson, (left) President of the BART Board of Directors, received outstanding Civil Engineering Award in California for 1977 from the San Francisco Section of ASCE for exceptional civil engineering on the BART project. Robert M. Kennedy, President of the San Francisco Section of ASCE presented the award which recognized BART as an example of excellence in the field of civil engineering. Tudor as part of the joint venture of PBTB, was responsible for the design of the aerial structures and a number of the stations and line sections.



ROAD TO ALMADEN

Acting as a subcontractor to Bentley Engineers, Tudor Engineering Company completed a small road job in October for the Almaden Winery in San Jose, California. The end result of the design was to provide the facility with a loop road which would allow more efficient movement of large tank trucks out of the winery's chilled tank area. The traffic could amount to 34 trucks a day and could be continuous throughout the year at this very active winery. Additional work includes another short road to the old Ranch House and will be done in conjunction with the construction of a new administration building. Tudor staff on the job were Lou Salaber, Don Scapuzzi and Luisa Bravo.

RADAR SUPPORT FACILITY

Bids for the Phase II Contract for this facility were opened in late November. The San Francisco office as part of the joint venture of Tudor-Braccia-Bentley will end over a year's involvement in this 6 million dollar project located at Beale Air Force Base, California, for the Sacramento District Corps of Engineers. The Phase I Contract, which included the construction of a two-mile access road and the provision of utilities to the site, is nearing completion. Construction of the Phase II items which will include a power plant, gate house, security tower and all other site features will commence in early January and be accomplished in conjunction with the erection of an eight-story radar building by another contractor.

TUDORITES IN WASHINGTON

A recent conference in Washington, D. C. provided an opportunity for Bob Janopaul, Keith Bull and Jim Potter to sharpen up their skills in the latest methods and procedures involved in doing business with federal agencies. The two day intensive course covered such topics as consultant selection, contract negotiations, federal assistance programs, contract administration and legal aspects. Prior to the conference, Bob and Keith spent a day meeting with HUD officials administering Tudor's Flood Insurance projects and also with Department of Energy representatives responsible for initiating the federal government's low-head hydro development program. Jim Potter spent his spare time making the rounds in the legislative branch and visiting with his good friend, the ex-governor of Idaho who is the current Secretary of the Interior in the Carter Administration.

RIVERTON HAPPENINGS

Greg Larson spent a week in his home territory of East Central Minnesota during August rediscovering forested lakes, summer rain and old friends.

Leave it to Jerry Crews to find some reason to "justify" his first vacation in many years - after being gone only one day on a trip to Banff National Park in Canada he was requested to proceed to Deer Lodge Montana and meet Steve Alters to go over a possible water project. While Steve and Jerry viewed Tin Cup Creek and the Montana State Penitentiary, Jerry's wife Darrolyn discovered several neat shops in Deer Lodge.

Peggy McMullen continues to look for surveying work for the Wyoming crew so that she can get back into the field. Peg rounded out a crew that spent six weeks staking a six mile long haul road for a new uranium mine at Jeffrey City. She is so enthused about this type of work, she has enrolled in a course in surveying at the local Community College.

TOOTHMAN'S TUDORITES

On August 21 the Boise Tudor staff and families, numbering nearly 130 met at the home of the "Mayor" of Canterville, Idaho - Dave Toothman - for the annual company picnic. Special guests were Louis and Pat Riggs. Events of the day included:



The Annual Tudor Regatta



The Incognito Arrival of "Master Draftsman Witt"



Lessons in Management - from the Master, Lou Riggs to Steve Alters, of Lewiston Office Manager.



The old 'stare down the camera' trick performed by Gary Ames.



And a special 'women's retreat' with Pat Riggs on the veranda.



Other noteworthy events which occurred during the day included a special lesson in horseshoe scoring by Ted Purcell -- "if it doesn't reach - move it."



And last - but not least a lesson in the art of tact. Never be a witness to the boss's misses--even when he is on the winning team all day!

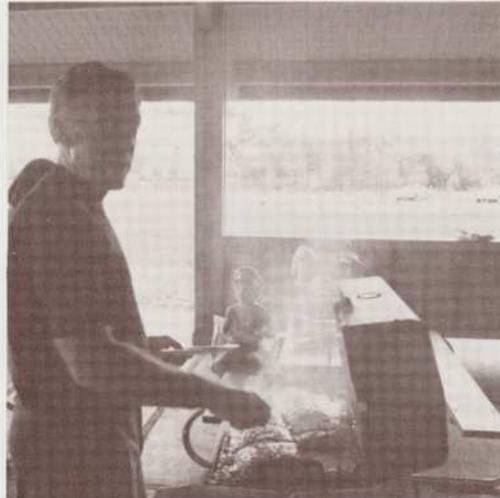
Note: This special event has been brought to you through the courtesy of Dave Toothman and his gracious wife Loreen. - "Damn - it's nice to be alone again!"



SEATTLE OFFICE PICNIC

It was that time of year once again. On September 4th the Seattle Office staff held their annual picnic at Lake Sammamish State Park; a new location which turned out to be the perfect spot for such activities. Softball, volleyball and ping pong seemed to be the more popular sports, however, several hotly contested games of dominoes and cribbage were observed throughout the afternoon.

Highlight of the festivities was the smoked salmon entree, superbly prepared on site under the expert culinary craftsmanship of Keith Bull. Numerous dishes to compliment the salmon were provided by families and friends, and the entire meal was washed down with ice cold beer, pop or chilled white wine. There was something there to satisfy even the most demanding gourmet, and by the end of the evening most people went home weary of leg, but with an inner satisfaction which indicated that it had been a day well spent.



SAN FRANCISCO PICNIC

In a brilliant example of engineering foresight and planning, the 1977 San Francisco Office Picnic was scheduled for July 30, the hottest day in the San Francisco Bay Area in many years. As the temperatures in neighboring communities reached 115°, over ninety Tudor employees, families and friends stood in the shade at a remote picnic spot in the Berkeley hills, renewing old acquaintances and visiting with friends. The lunch, highlighted by barbecued steak and a wide variety of salads and desserts supplied by the participants, was followed by brief, sporadic forays into the sun for volleyball. After a full day, everyone left for home at about 4:00, approximately three minutes after the beer ran out.



LIN, LEMMA, LARSON . . .

. . . lin wilson

In the Seattle Office, where he has been based since 1970, Lin Wilson is sometimes hard to find. His desk is piled high with a seemingly random collection of material, accumulated in the course of several years of compiling reports and specifications for a variety of projects.



Lin was born in Scotland and raised in England. After graduating from Cambridge University, he worked in Canada for a year, then in London for a firm of consulting engineers. With this firm he spent two years in Kuala Lumpur, Malaysia. He continued his travels via Australia, New Zealand and Mexico to California and decided it was time to look for work again. In 1965 he joined Tudor, working in the field on the New Exchequer Dam project.

Merced, the metropolis closest to the dam-site, turned out to be no place for a bachelor, so Lin made weekend visits to the Bay Area. There he met Judith, also from England, and they were married shortly afterwards.

Judith works as a part-time legal secretary and her volunteer activities include puppetry and service as a docent in Woodland Park Zoo, in Seattle. The family also includes two daughters. Elizabeth is in 6th grade, is learning to play the viola and appreciate wildlife. Susanna, a Girl Scout, is in 4th grade and is an enthusiastic and imaginative cook.

In June the whole family visited Britain for a month. Although the purpose was to renew acquaintance with friends and relatives, the trip included a lot of sightseeing. Back at home, the family returns to interests which include skiing, opera-going and Scottish country dancing. Lin is often to be seen on a sailboat on the lake, but has not yet converted the rest of the family to enjoying this pastime.

. . . lemma wendim-agegnehu

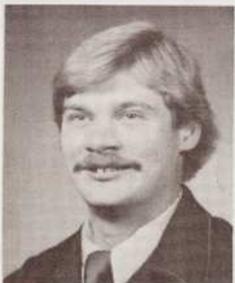


Lemma Wendim-Agegnehu is a relatively new member of Tudor's San Francisco office, having joined the firm close to a year ago. Lemma's last name is his father's first name and means "I found a brother." Journeying back in time--for it is a long and twisting road which brought Lemma to Tudor's door--one learns that it was a career in forestry and soils sciences to which Lemma first aspired. Having had some of the technical and agricultural background for forestry, Lemma was prepared to enter this field when scholarships to study in the Soviet Union became available to anyone interested in pursuing engineering studies. At age 19 Lemma departed from Ethiopia, his homeland, for Moscow where he studied for five years. During vacations he traveled in and around Russia and Western Europe.

Before venturing further, after his studies were completed, Lemma was required to return to Ethiopia. There he found work with a river valley development of the Awash River Basin in the Rift Valley. Two years later Lemma came to the U.S.A. where he began work with the Bureau of Reclamation for western states as an in-service trainee. After a brief return to Ethiopia working for the U.N., Lemma came back to the U.S. for further schooling. He received his Ph.D. degree from Colorado State and went to work for Bechtel for two years in a hydro-specialists group. Here at Tudor Lemma is presently engaged in flood study work for the Nevada region.

Lemma married Sehin, his wife who is also Ethiopian, just before coming to the States for his second time. Lemma is a tennis buff and used to dabble in photography. He and Sehin enjoy walking, hiking and getting away into the mountains as they so often used to do in Colorado. California surely offers opportunities for this and for many of the good things Lemma and Sehin have worked so hard to achieve.

. . . greg larson



Upon arrival in River-ton in the spring of 1976 Greg Larson asked in a most perplexing tone "where in the heck are all the trees?" Jerry Crews hemmed and hawed for three days before breaking the news that "brush is beautiful."

Within three months, however, Greg had settled down to becoming Tudor Wyoming's most valuable player. The shock of being transplanted from Minnesota where surveyors practically have ferns growing from their equipment to a somewhat desolate environment of high prairie was easily overcome by this gregarious and industrious technician who quickly was nicknamed "Decent" by his coworkers.

Greg hails from Detroit Lakes, Minnesota,

where his father ran his own Civil Engineering firm. It has been rumored that he was cited for breaking child labor law when Greg, at the tender age of 12, was found collecting sewage samples from the local treatment plant.

"Decent" graduated from the Duluth Area Vocational Technical Institute and holds a certificate as an Associate Engineering Technician.

Between rebuilding an old 4-wheel drive Scout, coaching a little league team, and playing volleyball with cream pies for "Anything Goes", Greg has singlehandedly handled all of the inspection work on the Ethete-Mill Creek Water Project. During 1976 and 1977 over 11 miles of water lines were installed on the Wind River Indian Reservation, and Greg swears that he wore out 2 pairs of boots singing "I Walk the Line." Greg has also been the mainstay of the wastewater sampling program where discharges from 8 plants are monitored quarterly.

TEN YEAR TENURE

Five members of the Boise Tudor staff recently received tokens of recognition for 10 years of service with Tudor Engineering Company. On August 22, Lou Riggs presented the service awards to Dave Toothman, Don Payne, Les Ankenman and Ted Purcell. Later in the day, Dave presented a similar award to Richard Waller, who could not tear himself away from the Survey Crew for the main event.



ADIOS & HOLA

Leroy Heitz, project manager of the Boise Flood Plain Studies bid Tudor vaya con Dios on August 31 to return to school. Leroy will be attending the University of Idaho during a planned two year leave of absence to obtain his doctorate. His major project will be to conduct a three state inventory on potential sites for lowhead hydropower developments.



CONGRATULATIONS TO . . .

. . . Brian and Kathleen Grant of Boise who are the proud parents of Christopher Michael born November 7.

. . . Nancy Jo Mallard who has just returned from her maternity leave having given birth to a baby girl, Lindsay, on August 1.

. . . David Milan and his wife who gave birth to their first child, Joseph David, on October 21.

. . . Gerry and Carol Gibney of Seattle on the birth of their first child, Adam Michael, on September 17th.

. . . Cissie Hsu of the San Francisco office who has obtained her Civil Engineering license from the State of California.

. . . Ocie Williams, and his wife, Persilla, who had a baby boy, Mosi, on September 13.

RECENT RECRUITS

. . . riverton

Chuck Brinda is the lead man on a three man survey crew that will round out the Wyoming operation for both engineering design and surveying.

Gene Sagrillo is a P.E. and a Land Surveyor. His major responsibility in addition to supervising the surveying will be in the area of municipal engineering projects.

Mike Stagg is another new surveyor joining the Riverton crew.

Maria Rengstl is handling the secretarial duties of the Wyoming operation and is rapidly learning civil engineering drafting.

. . . lewiston

Andrea Axtell has joined the Lewiston office's secretarial staff.

. . . boise

David Maffey has recently joined the survey crew and Bob Mayer is a new addition to the engineering group.

. . . san francisco

Hans Albring is a new structural engineer currently involved in the Rollins Power Project.

Peggy Curry is now everybody's girl Friday in the San Francisco office, with duties including library maintenance, car control, supply ordering, and switchboard relief.

Candy King is an hydraulics engineer devoting time to the Flood Plain Studies. Avid backpacker Candy and her husband joined fellow employees on an October weekend trip to the mountains.

Elaine Lee is new to Tudor's accounting department in San Francisco and a welcome addition to the volleyball team.

Helen Solomonoff comes to us from Argentina and is helping with electrical drafting on the Rollins Power Project and Redwood Valley Water Treatment Plant.

Trish Wyant is the newest addition to the San Francisco office as receptionist. She is fluent in Spanish which will come in helpful when making those overseas calls.

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TUDOR

NEWSLETTER

WINTER 1977

FAREWELL TO GLORIA



November 30 heralded the last day of work for Gloria Aguilar, who after 15 years of service with Tudor in the San Francisco office, is preparing herself for a new role as wife and homemaker in Hawaii. To highlight Gloria's last day, over 60 "Close-mouthed" Tudorites assembled for a surprise luncheon to bid farewell to a wonderful person and friend. Rounding out the day's festivities, cables and telexes were received from Atlanta, Boise, Riverton, and Seattle; an orchid lei arrived from the Honolulu office; and a special gift from all of the Tudor staff was presented to Gloria as a reminder, that-

Wherever Tudorites roam,
To Caracas, Rio, or Rome,
Along the way,
They may always stay,
At the Rossetti's palm shaded home.

Aloha

HIP BOOTS ANYONE?

While Harry, DeWitt, Gerry, Cheng-Nan, Francois and Don are working on the Flood Insurance Studies in south and west central Washington, Pete Paterson is worrying about floods in another place. The Washougal River in Clark County is the location of a new flood information study being undertaken for the Portland District Corps of Engineers.

RIVERTON REVELATIONS

The Wyoming crew of Tudor closed 1976 with a total of 34 jobs, up from 16 in 1975.

Work was begun on a Waste Water Facilities Plan for South Superior and Tudor was retained by Deaver, Wyoming, to upgrade their Water Treatment Plant. About 8 miles of water pipeline were installed on the Wind River Indian Reservation. If statistics are your game, a quick look at personnel data is interesting: total staff increased 75% (from 2 to 3.5) and women are on a par with men (2 to 2). Three distinct fields of training are represented: Jerry Crews - Civil and Agricultural Engineering; Greg Larson - Surveying and Civil Technology; Peggy McMullen - Architectural Engineering. Combine these three skills into a small, intimate office located in the hinterland of Wyoming and you have what the crew calls a "great place" to live and work.

WEST BOISE SEWER DISTRICT

Three construction crews are at work on two sub-projects of the West Boise Sewer District sewage collection system. Inspectors are Sabine Landaluce and Henry Mott. A third project scheduled for starting on January 3, 1977, has been delayed by recent snow. The third project, when underway, will see nearly 400 feet of horizontal boring using a 36-inch carrier pipe. This construction will be overseen by Steve Alters who says the work on a ten percent slope will be "interesting." Neal Eagar, Frank Paden, and Donna Nelson are working hard to ready six more sub-projects for bidding. The entire project should be in the ground and buttoned up by January, 1979.

PORT OF LOS ANGELES STUDY

In mid-November Tudor Engineering Company, together with A. D. Little Company, began work on an independent engineers report related to a revenue bond issue for the Port of Los Angeles. The Tudor staff, headed by Lin Wilson with assistance from Lou Salaber, has overall responsibility for the study, including a review of existing facilities and the proposed capital improvement program over the next five to six years.

Tudor has the responsibility of estimating operations and maintenance costs for the study period while A. D. Little is developing commerce projections for the Port and estimating revenues. The report, to be completed in late February, will be furnished to prospective bond buyers along with the bond prospectus later in the year.

Henry Mott offering his wife Beverly some suggestions on appropriate behavior for the evening.



Jim Potter debating the wisdom of maintaining his diet.



This photograph is included to demonstrate the photographer's sensitivity to beauty, Jill Mason (center foreground). Also seen are Dave Toothman, a waitress, and Bob and Martha Mann, but who cares?

With apologies for the glare from Ted Purcell's cranium, a candid shot of the boss and Loreen Toothman.



Jim Potter, Rick Orton and Phil Matthews looking for pearls in the steamed clams. Score: Clams 100, Three Stooges 0.



This photo is offered as proof to the skeptical that Dave Torgeson is taller than Bob Janopaul. Mr. Janopaul is expressing pleasure in the knowledge that he is still taller than Ted Purcell.

BOISE CHRISTMAS PARTY

By Dave Torgeson



The life of the party, Brian Grant.



Ted Purcell and Jerry Crew's fiancée, Darrelyn King, checking to see if Jerry's left ear is still attached.

Janeen Heitz (center) telling a dirty story to Jo Mallard. The embarrassed figure with the beard is Janeen's husband, Leroy.



That famous raconteur and ladies' man, Ted Purcell, with Martha Mann and Doris Paden. (Wives of Bob Mann and Frank Paden, respectively).



Randy Witt with his eyes closed.



One of the few known pictures of Randy Witt with his eyes open. (Brian Grant, who seems to have loosened up, and his wife Kathleen are in the background).



December 19 was the date of the Boise Holiday Party at the Crane Creek Country Club. Bob and Beth Janopaul came up from San Francisco. Dave Torgeson captured some scenes for posterity on film. Since no one would buy the incriminating evidence, he has recounted the event with tales of lore.



Famous latin lover Sabin Landaluce (left) giving the eye to the future Mrs. Paul Kunz. Paul is doing multiplication tables in his head and balancing a drink in his left hand.



Helen and Neal Eagar trying to avoid the omnipresent photographer's eye. Notice Neal's clever attempt to shield himself from recognition.



"Smiley Jim" Lundquist, Herb and Jo Mallard. (Note the dainty glass of wine from which Herb is drinking).



In spite of the repeated references to Ted Purcell contained in this article, this is not a shrewd attempt by him to gain publicity. Furthermore, Ted Purcell did not write any text for the article, and he disclaims any liability or responsibility for any of the claims, statements and lies contained herein. Additionally, he wishes to include a photo of the real author (at left) portraying thereon in an accurate fashion his usual subdued self.

Our leaders, Keith Bull and Louis Riggs.



Dianne and Joe Hofbeck standing, then clockwise, Paulette Johnson, Lin and Judith Wilson, Maudjean and Dave Thompson, and Basil Kattula with back facing front.



SEATTLE CHRISTMAS PARTY

Harry and Gigi Hosey: "Now Gigi! I can't take you to the hospital yet, the party isn't over."



Judi and Don Hoel. No comment.



In the foreground, Lela Paterson with Joe Hofbeck as Dianne Hofbeck looks on: "Lela, I would love to have another dance with you, but Dianne says no."



Pat Riggs and Don Hoel: "See Don, I told you even though you have two left feet, you can still look as though you can dance."



Grace and Cheng-Nan Lin trying some mysticism on Lou.



Gary Samek with Kathy Dorbin: "Gee Gary, would you please hold yourself together? I can't hold you up while we are getting our picture taken."

Left to right: Sylvie and Francois Martin, Einer Handeland and Mike Harrington.



Basil Kattula had just finished asking Paulette Johnson, "If the time ever came again and I had to go back to Atlanta, would you go with me?"

The holiday season began early in Seattle with the Christmas party on December 3 held at the Mercer Island Beach Club. Louis and Pat Riggs added to the festivities by sharing in the congenial conversation, outstanding hors d'oeuvres, and an excellent prime rib dinner. Music was provided by the tapes of Ernie VanTine. All thirty who attended thoroughly enjoyed the party. Those who outlasted the music and dancing finished the party with an early morning breakfast at the home of Keith and Diane Bull.



Keith and Diane Bull, Louis and Pat Riggs: "Let's sing our favorite Christmas carols."



Wil and Marge Pacheco in usual holiday form.



Clockwise from upper left: Wil Pacheco, Paul Potter, Marge Pacheco, and Dawn Potter.

ATLANTA CHRISTMAS PARTY



Paul Potter, Bela Vadasz, and Doug Mansfield after having received PBTB cuff links.



PB/T Project Director Jim Lammie and his wife, Shirley.

The PB/T Christmas Party was held at the Hospitality Inn in southwest Atlanta on December 17. Most Atlanta Tudorites were in attendance. Joe Sacco was back in San Francisco for the holidays and two weeks of work. Paul Potter, Doug Mansfield and Bela Vadasz were presented PBTB cuff links for being among the 10 employees with the longest PBTB/PBT service in Atlanta.



The Mexican Connection, Mental Case, or M.C.; as you wish.



Two more to Tudor's 25 year club.



Stan and Harriette express their delight on the occasion.



Mike Viarnes warning Bert LaVigne of the fragile contents.



Bert not listening. Breaking the ice is one thing...



"But honey, I didn't know!"



Gloria takes a whack at it. You should have seen Matt!!



"But Percilla, you're important too." Ocie Williams presenting birthday cake as Jeff Werner, Heather Hayes, and Joy and Wayne Nakamoto look on.

SAN FRANCISCO CHRISTMAS PARTY

Alfred Korbmacher and his usual grin accepting his 10 year award.



Heinz Mueller, in a festive mood, needed to be dragged bodily from the mike.



The holiday party in San Francisco was held at the Engineers Club, as has been the tradition in recent years, on December 11. Mike Viarnes acted as Master of Ceremonies. Louis Riggs and Stanley Froid each received the special 25 year award, a decanter set with an engraved silver tray. Randy Wilkinson received a 20 year award; Gloria Aguilar received a 15 year award; and Bill Davis, Dave Willer, Heinz Mueller and Alfred Korbmacher received 10 year awards. Matt Harrison and Gloria Aguilar also received special certificates of appreciation from the Board of Directors for their years of service. Dave and Loreen Toothman, Paul and Dawn Potter, and Keith and Diane Bull came from Boise, Atlanta, and Seattle to join the festivities. The notorious lens of Gene Altshuler captured some of the memorable moments.



Matt Harrison receiving special plaque from the Board of Directors on the occasion of his retirement for the "profitable" and "extensive" endeavors undertaken in his 12 years with Tudor.

Bill Davis reminiscing on his 10 years. It hasn't been all that bad!



Dave Willer: "Lou, do I have to give it back Monday morning?"



The long good-bye to Gloria by Louis from all of us.

WE GOOFED ...

It is hard to believe but once in awhile we make mistakes. In the rigors of producing engineering drawings, specifications, and reports we also produce a quarterly newsletter. We try to keep our newsletter as error free as our engineering, but last month in our article, "Viajando Con Roberto," we goofed! The first eight lines of the first paragraph were repeated in the second paragraph above a story on Raul and Imelda Martinez. It should have read:

After returning from Caracas, Bob came back to San Francisco for a month or so and then took off for Chile to visit Raul Martinez who is Tudor's Project Manager on the Santiago San Antonio Expressway there. Raul is expected to be on that job through 1977. Raul's wife, Imelda, is very active in Chilean charitable causes. She is currently vice president of the Association of American Women in Chile and her recent projects have included producing the play "The Gay Nineties" and the AAWC's Bicentennial Ball in honor of our country's 200th birthday. More recently her efforts are being directed toward raising money to purchase Christmas presents for the needy children of Chile. Hats off to Mrs. Martinez!

We apologize to Raul and Imelda and ask the indulgences of all others.

CONGRATULATIONS IN ...

... atlanta

To Oral Conyers who became a grandfather for the third time with the birth of a son to daughter Julie on December 30.

... boise

To Paul Kunz and his bride, Rhonda, married December 22nd in Winnemucca, Nevada.

... riverton

To Jerry Crews and his bride, Darrelyn, married January 7th in Riverton, Wyoming.

... san francisco

To Darryl Tyson and his bride, Caroline, who married in December.

To Wu-Chieh Chen and his bride, Siao-Mei who also married in December; their wedding, in formal Chinese tradition was attended by a number of Tudorites.

To Hernando Orozco and his wife, Maria, who had another baby girl in November.

To Anh-Tuan Le, who has received his California State Structural Engineering license.

... seattle

To Harry Hosey and his wife, Gigi, on the birth of their daughter, Eugenia, January 6th.

BOISE IS BOOMING

... Preliminary plat approval of the 79 lot, Briarhill No. 2 subdivision has been obtained. Dave Torgeson has begun final design on the project and notes an interesting hydrological situation: a 100 year storm is expected to generate nearly 800 cfs runoff in a gulch that is less than 300 feet wide.

... Don Payne and Randy Witt have been kept busy with office work for land developments for clients such as Skyline Corporation and Marcum Land Company. Kim Gates, Adrian Moody, and others of the survey crews have spent a great deal of time on projects such as Skyline Subdivision, Frontier Subdivision, Sunset Rim and Indian Lakes, to name a few.

... Dave Milan, Bob Stannard, and Rick Orton, ably assisted by Jim Lundquist, have nearly completed the final design for a modern water treatment plant for the City of Horseshoe Bend, Idaho. A surface intake in the Payette River pump station and filtration plant compose the works. Design capacity is 1000 GPM. The plant will augment and eventually replace deep-well sources which have produced taste and odor problems in recent years.

VAYA CON DIOS



After twenty years of service to Tudor, Randy Wilkinson has elected to leave the field of consulting engineering to join a public utility located near his home in Marin County, California -- the Marin Municipal Water District (MMWD). Randy will be assisting MMWD in the design, preparation of construction

documents, and construction management of the Soule Jule Dam -- an addition to MMWD's facilities to help resolve a crucial deficit of water supply works in Marin County, one of the counties in California to suffer the most from the anticipated drought this year.

Randy advises that he will miss all his friends at Tudor, but he is looking forward to his future with MMWD in consideration of the change to viewing projects as an owner instead of as a consultant; the opportunity to be of service to his community; and the personal benefits to himself and his family resulting from his ability to work so near his home.

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