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TUDOR

ENGINEERING COMPANY

NEWSLETTER

SPRING 1974

EDITOR'S CORNER

With this issue of the Tudor Newsletter, we sincerely hope to resume a very vital link in our "family" communication system. To make this and future newsletters meaningful, it requires the spirited cooperation of many interested people. We sincerely appreciate the contributions made to this issue and look forward to hearing from all "newsletter reporters" in time for our next publication in June. Jokes, cartoons, and photographs are gladly accepted. Items on streaking may be subject to editorial review!

Robert N. Janopaul

IDAHO AND INTERMOUNTAIN NEWS

Municipal engineering projects still dominate the work load in the Boise office. Grandview, Idaho, water and sewerage systems were completed in mid-1973, and Wells, Nevada, water system is presently under construction. Design projects scheduled for construction this year include Horseshoe Bend, Idaho water and sewerage systems for Bruneau, Castleford, Greenleaf, and Melba, Idaho, and Jordan Valley, Oregon.

Industrial waste treatment projects are gaining a significant place in our work load, with current emphasis on wastewater reclamation projects. Contracts are presently underway with Beatrice Foods, Idaho Dairyman's Association, and Idaho Meat Packers.

FROM SEATTLE

Hanford Thayer, Manager of Project Development in the Seattle Office, is Northwest Regional Vice President of the Society of American Military Engineers. Hanford plans to attend the Western Regional Conference of SAME to be held in Sacramento at the Woodlake Inn, April 25 - 27, along with his counterpart, the Southwest Regional Vice President, Louis Riggs. In recognition of the many years of devoted service of Hanford to the SAME, he was awarded the 1974 Gold Medal for Distinguished Service. This is the top award bestowed by SAME. Congratulations, Hanford!

ACTIVITY IN SAN DIEGO

The San Diego contingent of Tudor is settling down in its new quarters at 525 "C" Street. The "new" home is on the second floor of the 67-year old Scripps Building, currently being renovated from top to bottom. The office offers natural light for all the draftspersons, but lacks the scenic view of the city that the 22nd floor of the Charter Oil Building provided.

Space in the new office has been subleased to BRH Mobility Services Company of Houston, Texas, prime on the BRH/Tudor/MRA team Centre City Transportation Study. Bert LaVigne will devote a third of his time to this major community effort. Hopefully, the study will attract the necessary federal and local funding for follow-on design and implementation.

Work on the Centre City Transportation Study has begun with Tudor handling the civil phases of the job. The study will investigate systems to move people in the central business core in lieu of the automobile.

A follow-up job on designing a section of the Forester Flood Control Channel is in the offing. Tudor did the right-of-way and construction drawings for a short section of the channel in 1972. Contract negotiations are to begin soon on final design of the remaining section of the channel.

The energy crunch seems to have halted planning for the Lucerne Valley generating plant, thus stopping Tudor's work on the 55-mile pipeline which was to have supplied water to the plant. The project has been delayed for a one- to three-year period depending on whether Southern California Edison can meet PUC energy cutback regulations.

SAN FRANCISCO OFFICE ACTIVITY

Gene Altshuler, who has been working for the past three years on BART Extension Studies, returned to the San Francisco Office as office manager. When the Pittsburg-Antioch BART Extension Project resumes after a five-month delay, Gene will continue on the project calling upon Lou Salaber for help.

SAN FRANCISCO OFFICE ACTIVITY (cont.)

After two years Don Croft and his group, including Jim Ricerito, Charlie Tsang, Al Korbmacher, Anh-Tuan Le and many others, have completed the structural design portion of the Social Security Administration building located in Richmond, California. The design services phase of the work will continue for another three to four months.

Dave Willer, with the help of John Williams and the San Diego office staff, have completed the first phase Ebbetts Pass Water Supply Project report on water needs. Follow-up work includes the preparation of the Project Report.

Frits Fenger reports that the Hawthorne Demilitarization Facility is about 80% complete. Working with Frits on this project over the past several months were Jim Holden, Heinz Mueller, George Szabo, Jim Teter, Don Moore, Bill Holmberg, Sunil Yadav, Loren Weinbrenner, Eva Necas, Jan-Sang Liang, Jim Victor, Bill Gin, Ocie Williams, plus every draftsman in the office at one time or another.

Dave Willer and Joe Carson completed the feasibility study and Public Loan 984 Loan Application for the Kelsey Creek Water Supply Project. The project consists of a dam on Kelsey Creek, domestic water transmission system to communities around the south end of Clear Lake, and an irrigation system in Big Valley.

Mike Viarnes, Project Manager of all the MARTA work in the Tudor offices, reports that the two major jobs being done by Tudor for MARTA are the design of the Standard Aerial Structures and the Arizona Avenue Underpass. Joe Sacco is the Project Engineer for the aerial structures and Don Moore is the Project Engineer for the Arizona Underpass. Keith Bull in the Seattle office is handling the substructure designs for the aerial girders and the standard retaining wall design work.

Don Moore reports that finally the design of the West Portal Muni Station is off and running! This station is the last of the major design contracts included in the original BART Project.

Dave Willer, Joe Carson, Gordon Little, and Louis Silva are making a reconnaissance level engineering study to raise Rollins Dam and add a power generating unit located at the base of the dam. The work is being done for Nevada Irrigation District.

Mike Viarnes, Roberto Iniguez, and their team of Wayne Nakamoto, Jaya Prakash, Marcus Rodrigues, Sylvia Miller, and Frank Chiappella, completed the final structural design of the Warm Springs Dam spillway and preparation of plans and specifications

in record time of three months for the Corps of Engineers.

Randy Wilkinson and Jim Albert completed environmental impact reports for proposed waste water distribution systems for the towns of West Point and Vallecito in Calaveras County, California. They had to prove that a little waste water wouldn't hurt the gold reserves of the Motherlode country!

THE SEATTLE STAFF REPORTS

Satendra R. Jain of the Seattle office flew to India in December. This was to be a six-week stay, but Satendra was married on January 20. Due to Doctor's orders for R and R, the vacation was extended one week. Satendra is back in Seattle now, looking all the better for that one week rest, and will be joined by his wife Marju on or about March 20.

Santa Claus was upstaged by the stork this past Christmas for Dave and Carolyn Hamilton. Victoria Leigh, their first child, arrived on December 13 weighing 5 pounds 15 ounces. In a big hurry to give her parents a tax exemption, she gave only an hour's advance notice and arrived one month early. The paint was hardly dry on her nursery walls and the crib barely out of the carton. In preparation for the family expansion, Dave and Carolyn had just bought a 15-year old house in the Tudor bedroom community of Mercer Island. Nearly engulfed by blackberry and vine maple the house overlooks Mt. Rainier and Lake Washington. Since it was almost destroyed by three years of renters, the house will test Dave's architectural abilities in remodeling - especially with the little time he has left after feedings and diaper change.

Bob Myrdal and Stanley Innes managed to crack a few ribs in January. Bob slipped on a wet log going down to the lake to check the boat one stormy night, and Stanley (believe it or not) fell over a chair in the living room carrying the early morning tray of tea. For three weeks neither could laugh at the name "Ribicoff"!!! We are glad to report that their breathing is back to normal.

Joe Hofbeck days that the ocean has been good to him so far this year, even only being into it three months. Joe has landed 10 salmon with a weight range of two to 11 pounds. Randy Radock who did well during the past duck hunting season has offered a trade but Joe likes fish better than duck.

Stan Innes, Lord and Master of the Snohomish Manor, has started to stock his land so as to be self-sufficient by year 1975 -- one pig, 25 laying hens, one pregnant goat, two geese, and two rabbits. This plus two dogs and many cats has brought a city boy to the reality that country living is not all sitting back and watching the land do its thing.

FROM SAN DIEGO . . .

John Williams, the office manager, continues to practice his tennis game awaiting word from B. J. King; however, his three-week trip to Indonesia in the latter part of March to review an AID sponsored irrigation project will cut into his practice sessions. (John did take his tennis racquet to Indonesia, though, just in case he found an open court.) John's youngest son was seriously burned on his leg in February, but is recovering, with Tudor blood bank contributing three pints to help Stuart along.

Margith McKean has come back to earth after seeing to the details of moving the office. She reports that the worst thing about the move is that now we're too close to lots of nifty shops in which to spend money.

Jerry Crews has rejoined the coat and tie ranks after four months of in and out of the trenches (pipeline, that is) on the Majestic Pines Water System Improvement job.

Alex Martin continues to spend a large portion of his time either getting, or worrying about getting, gas to make his trips to the John C. Bargar Water Treatment Plant. Work is about 90 percent done, with the instrumentation and control panel being the critical item in finishing the plant.

Marcus Rodrigues has returned to San Diego after spending a period in San Francisco working with Mike Viarnes on the Warm Springs Dam Spillway.

Shelly Shelton is back in a consulting role helping to develop business for Tudor and is operating out of his home.

Cherie Gossett is practicing away on her Portuguese, while Marcus sits back and offers gentle hints. Cherie returned in September from a three-week study tour of Brasil.

AND FROM ATLANTA

As this issue of the Newsletter goes to press, we are awaiting input from the MARTA contingent (Paul Potter, Doug Mansfield, Bela Vadasz, Wil Pacheco, Bob Ganse, Roger Brassfield, Ken Heilig, and Gerry Gibney) of Tudor in Atlanta. Hopefully, we can report on their activities in the next issue.

SPECIAL GOOD WISHES AND CONGRATULATIONS

Congratulations are in order for Hernando Orozco who just graduated from the Bay Area Engineering Society's Committee for Manpower Training Program as a full time draftsman.

It's been a busy time for the wedding bell routine . . . Don Yamagishi married Matsuka in September . . . Ocie Williams and Percilla were married in March . . . and Bill Davis couldn't cope with bachelo life any longer and finally succumbed to marriage. Blanche and Bill were married in November. They are now living in Larkspur.

Mike Ford just received word that he was the recipient of a grant from the Engineering Society's Committee for Manpower Training (ESCMT) for a one-quarter term at Heald's College.



The above photograph of the Warm Springs Bridge in Sonoma County, California, is one of a series recently taken by Tudor for the Corps of Engineers' "Chiefs Competition" for the nation-wide 1974 distinguished design award. The bridge was designed for the San Francisco District, Corps of Engineers. Keith Bull was the project engineer.

FROM BOISE . . .

The Idaho staff has undergone numerous changes since our last newsletter. New members of our team include Steve Alters, intermediate engineer, previously employed by the U. S. Forest Service; Ted Purcell, who recently transferred from our San Diego office; Randy Witt, senior draftsman; and Lia Lyons, who replaced Cathy Bostrom when she retired to become a mother. Dave Richey recently left our staff to accept the position of director of Twin Falls/City/County Planning. Don Payne was recently registered as a land surveyor but refuses to display his license while Les Killingsworth, Ted Purcell, and Jim Potter have been busy obtaining a reciprocal licensing to appropriately paper their office walls.

Highlights of the year included our annual summer picnic at the Toothman's Centerville hideaway and our Christmas party at the Toothman residence, both hosted by Dave and Loreen Toothman. Other events of note included an egg and rock toss with several bottles of Scotch changing hands among Randy Witt, Steve Alters, and Don Payne -- each of whom has a different opinion of who won and who lost.

Junior staff members this year include a son, Daniel Lee, born to Jim and Jane Lundquist on September 5. This gives the Lundquist's a full basketball team (five boys). Also, Dave and Nancy Richey had a daughter shortly before Christmas. Pat Purcell has been spending the past few weeks teaching Ted how to do housework while boasting a cast acquired on the Bogus Basin ski run.

SEATTLE SPORTS!

The Seattle office with venture partner Kennedy Engineers has torn apart a Seattle Recreation Department basketball league with their apropos named entry, "Totally Dissolved Solids." Super Stuffer Harry Hosey leaves only cinders attached to the hoops where the nets once were, as Dynamite Dribbler Vern Hodgson keeps on feeding from the outside (apples, chicklets, . . . ?).

Off to a slow start, due to inclement weather naturally, T. D. S. took the first contest in the shorts 101-23. But determination has served well as the incredibles progressed to a mid-season victory 2-0 (a forfeit). We've learned to pass and shoot better now and scored almost 50 points in the last encounter. Proof to the ubiquitous suspicions that we were saving ourselves for a late season comeback. Magnificent Myrdal even had to break some ribs and serve the chanting galleries with a note from his doctor in order to stay out until the comeback.

Other participants include Battlin' Basil Katula, Dunkin' Dave Hamilton, Finessing Fred Estep, and Eclat Einer Handeland. Special credit is due to Dave Hamilton's sparkling graphics. The numbers on our shirts are suitable for contract work. Mod Mary Glocking has led the cheering section, and Vern Hodgson's wife has tripled as team photographer, trainer, and song leader.

NEW SAN FRANCISCO EMPLOYEES

A new face in the corporate office is Tevis Thompson, our new Assistant Controller. Tevis is easy to recognize in that he's about 6 feet 7 inches tall, good looking, smiles a lot, etc. . . .

Another recent addition to the San Francisco staff is Gordon Little. He joins the water resources group and is deeply involved in the Nevada Irrigation District project and the work for Calaveras County Water District. Prior to a short return assignment with the DWR in Sacramento, Gordon spent a few years in the Phillipine Islands working on a major irrigation project.

Frank Malgeri is a new employee in the San Francisco office and is working with Rainer Rungaldier and Grant Larsen in the field of technical writing. Frank's literary credits are many. He has had several books and articles published, both technical and historical, and has also written television and motion picture scripts and narratives for motion picture documentaries. In progress are a novel and two full-length biographical works. Talk to Frank for more details regarding his colorful background.

A welcome addition to the female (or person ? ? ?) staff at the San Francisco office is Judy Otto, who made the "Big Decision" to leave Chicago in exchange for the San Francisco Bay Area. . . a hard choice? Judy presently lives in Tiburon but plans to eventually move into the City -- just not a commuter at heart!

Joining Tudor San Francisco office in January was Ron Urzedowski, a draftsman. Ron recently moved to the Bay Area from cold and snowy Illinois, hoping to enjoy the warmth of sunny California (?).

Ilhami Karaca, a structural engineer from Chicago, recently joined Tudor San Francisco and is now busy working with Joe Sacco on the MARTA aerial structure.

After working last summer with Tudor for several months on loan from Garrett & Elmondorff's office, Gil Zambran decided to join Tudor's San Francisco office. A belated welcome aboard, Gil!

NEWS FROM SANTIAGO

Raul Martinez reports from Santiago, Chile that the recent "Chilean Revolution" is calmed down and things are beginning to return to normal. He states that the Time Magazine articles on what happened in Chile are hard to correlate with what actually happened during the downfall of the Allende Regime. Raul and his family are expected in San Francisco sometime this summer, and we'll get a full report then on the subject.

SAN FRANCISCO OFFICE NEWS

Louis Riggs was in Seattle on February 15 to participate in the membership meeting for the Consulting Engineers Council of Washington. A large part of the meeting was devoted to a discussion of professional ethics. Louis was luncheon keynote speaker. Keith Bull also participated in the meeting. As Southwest Regional Vice President of SAME, Louis and Pat Riggs will be attending the Western Regional Conference in Sacramento on April 25-27.

Randy Wilkinson and family spent Christmas vacation in Baja, Mexico. Anything to avoid the constant downpour of rain sent south from Seattle.

Oral and Julia Conyers departed from the Bay Area in February to return to the "Evergreen State" (means that it rains a lot in Washington). Oral has taken on the responsibility of Resident Manager for Construction for the Tacoma Spur Project in Tacoma, Washington. Their youngest daughter, Julie, and her husband are conveniently stationed a few miles down the road at Ft. Lewis.

Rainer Rungaldier returned to the office recently with a very "red face." Seems he and Juanita took a several-day holiday at Squaw Valley skiing and absorbed too much sunshine.

Jim Victor was on a loan assignment with Motherlode Engineering in Angels Camp, California, during December. Jim didn't mind it at all as he had his skis along and was living just a few miles from the lifts at Bear Valley/Mt. Reba.

Stan Froid and Matt Harrison spent the week of February 25 in Detroit at a Society of Automotive Engineers' Conference and were participants in the program. Matt gave a talk on the subject of "Rubber Tire vs. Steel Wheel Tradeoffs," and Stan discussed "Concrete vs. Steel - Aerial Guideway Tradeoffs." Joe Sacco gave Stan some help in the preparation of his talk.

Celebrating the Christmas season and a marvelous reason for an extra-long lunch hour, the secretaries from the joint venture PBTB held their annual Secretaries Luncheon at the Garden Court. This provided Gloria Aguilar, Carol Keyzer, Virginia Poindexter, Leone Morris, and Katherine Beers with a once-a-year opportunity to get better acquainted with those people they speak with only by telephone all year long.

Wanda Ashton has recently been having a bout with her Dentist. Seems he wants her other two wisdom teeth and Wanda's not sure she wants to give 'em up, not after what he did to her the last time.

Leone Morris was involved in an accident going home on the evening of March 1, Friday. The cab in which she was riding was hit broadside by a not very sober driver. That night she underwent emergency surgery. She was released from the hospital on Monday and returned to work the following Monday.

In her spare time, Rhoda Gordon is designing a drawing book for children. . . details are classified "SECRET," due to the unique and most creative nature of the undertaking.

New Year's Day found Jim Teter and Loren Weinbrenner at the Sugar Bowl in New Orleans. Since Montego Bay, Jamaica, was only a few hours away by air, Jim and Loren managed to force themselves into spending a few days in the sun before returning to the frantic pace of the Hawthorne job.

Grant Larsen is a very busy man these days. He conducted a seminar at the Sacramento Chapter of Construction Specifications Institute in March, and chaired the first meeting in February of the continuous joint committee of AIA/CSI/Producers' Council. The subject of the meeting was "Glass and Glazing," and 240 were in attendance. Grant will talk to the student chapter of the Construction Specifications Institute at Cal Poly at San Luis Obispo on April 3.

Roberto and Josie Iniguez spent most of the month of March in Europe. Roberto was working in Paris (! ! !) on a proposal with a French consulting firm for a major hydroelectric project in South America. Bob and Josie returned home via Spain so they could practice their Castilian Spanish.

Lou Salaber and family returned in December to their home in Corte Madera. They are now busy fixing up the house after six renters, but their thoughts are on a six-week trip to Europe in June and July.

Mike Viarnes finally made it to Mexico in late March on a return trip from Atlanta that included a stopover in Mexico City. Isabel joined Mike in Mexico for a well-earned week's vacation.

Miguel Cornejo was transferred from the Lima office to San Francisco and arrived with his wife Lia and daughters Maria Lia and Maria Pia in November of last year. In late March Miguel took off for Panama to work on a Technical Assistance project in connection with the Trans-Isthmus Highway. His family is now back in Lima to await a new family addition, expected in early May.

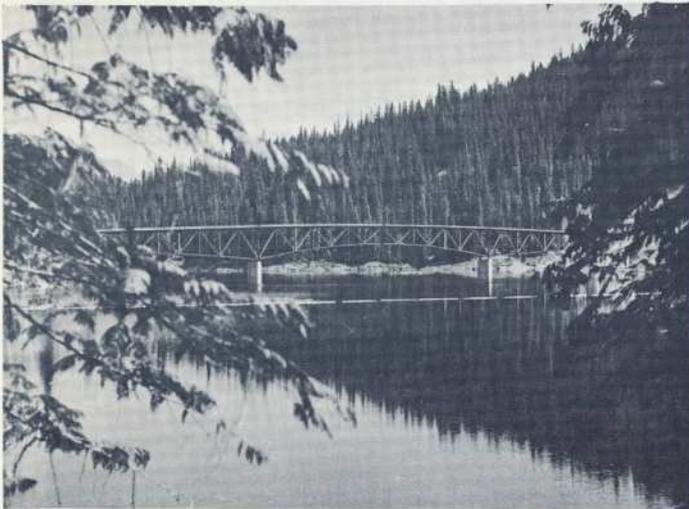
George Szabo recently made a combined business/vacation trip to Hawaii and ended up the trip spending several days on the Island of Kauai with his wife Margot and daughter Kathleen.

TUDOR

NEWSLETTER

SUMMER 1974

TUDOR COPS TOP PRIZE FOR GRANDAD CREEK BRIDGE



Lt. General William C. Gribble--Chief, U.S. Army Engineers--announced an award of merit to Tudor Engineering Company for the concept design of the Grandad Creek Bridge, Dworshak Dam Project, Clearwater River, Idaho. The award is associated with the U.S. Army Chief of Engineers Design Awards Program. A companion award was made to Colonel Nelson Conover, Walla Walla District, for the detail design.

Brig. Gen. Richard McConnell--Division Engineer, U.S. Army Engineers--presented the awards in Walla Walla on June 17 during ceremonies celebrating the birthday of the Corps of Engineers. Hanford Thayer accepted the award for Tudor Vice President Keith Bull, chief engineer for the concept design and report for Grandad Creek Bridge. Women liberationists will no doubt demand that Tudor do the same fine job for "Grandma's Creek."

MAMMOTH SAN FRANCISCO PROJECT WILL RECEIVE TUDOR INPUT ...

The Eastshore Park Project--a large, ten year \$900 million urban renewal project--extending from China Basin to Islais Creek along the east shore of San Francisco Bay received unanimous support and approval from the San Francisco Board of Supervisors on May 28. Tudor will serve as general engineering consultants to the newly-formed Eastshore Park Project Corporation. By the end of September '74, the consultant team including Tudor will develop specific plans for the implementation of this project.

HAVE THE "TUDOR EIGHT" FOUND HAPPINESS IN ATLANTA?

There are now eight Tudor employees assigned to the Atlanta office of PBTB. They are: Paul Potter, Doug Mansfield, Bela Vadasz, Bob Ganse, Wil Pacheco, Roger Brassfield, Ken Heilig and Gerry Gibney. Work on the \$1.8 billion, 61 mile system has progressed to the point where a few design units are moving from the preliminary design stage to detail design.

Atlanta, as most residents and visitors would agree, is an attractive and exciting city. Half of the Tudor contingent--Doug Mansfield, Wil Pacheco, Roger Brassfield and Gerry Gibney--are spending their first spring in Atlanta and have been suitably impressed; but, of course, with the exception of Wil, they all came from "seasonless" Hawaii. Many dire warnings of winter weather, particularly of the ice storms for which the area is noted, were issued by longer term residents. Fortunately, the winter was bearable and the ice storms did not materialize this year.

In the busy two years since arriving in Atlanta, Bob Ganse has taken on some ambitious remodeling and landscaping of his home in the Briarcliff area; Ken Heilig is working on his second home; and Bela Vadasz and several others have been exploring the Appalachian Trail.

A special note to friends of Dixie Tomlin-- a former Tudor employee: She has joined the staff of PBTB-Atlanta.

TUDOR HAS ROLE IN FLOOD CONTROL PROJECT IN SAN DIEGO ...

Even though the sun is shining now in Southern California, in preparation for the rainy season, Tudor is currently working diligently on a flood control project for San Diego County. Incidentally, it just so happens that Jerry Crews lives right down the street from Forester Creek and will take advantage of a proposed bike trail that will parallel the flood control channel.

AIR CONDITIONING ...

In San Francisco during the first week of June was Guillermo Rangel, coordinating a local subcontractor's services in providing design of air-conditioning facilities to Sada-Tudor, S.A. for the Fundidora Steel Plant's administrative offices. While here, he also found a blizzard of paper work to take care of.

CATCHING UP ON THE TACOMA SPUR PROJECT

The Tacoma Spur is under construction! After five years of location studies, environmental assessments, litigation, and design, a construction contract for \$6.1 million has been awarded and work is underway.

The project is the first link in the planned freeway connection between Interstate 5 and downtown Tacoma and extends from South 12th Street to Stadium Way. The alignment occupies the upper portion of a 100-foot high bluff overlooking the City's waterfront. The corridor includes several items of significance which greatly influenced the alignment as well as the design - a cedar totem pole 100 feet high, an urban park with an overview of Tacoma's dynamic industrial complex and Commencement Bay and the architecturally significant 87 year old Northern Pacific Railroad headquarters building. In the park area, the roadways are cut into the hillside and decked over to restore the park.

After passing the park, the alignment moves out over the hillside where it is supported on aerial structure to bypass, leaving intact, the old Northern Pacific building.

Framed bents with round columns supported on drilled piers up to ten feet in diameter are used to support the precast, prestressed concrete girder superstructure. Since the Puget Sound area is seismically active, a dynamic ground response study was made. This study received a National First Honor Award from the American Consulting Engineers Council.



The complex route location and alternative alignment studies were developed by Francois Martin under the direction of Michael Harrington as project engineer. A young structural engineer on loan from the San Francisco office, one Keith Bull, assisted with the structural concepts. The services of Lin Wilson were invaluable during the preparation and evaluation of environmental assessments.

When the project entered the detailed design phase, R. Louis Salaber assumed the role of project engineer. Francois Martin developed the final alignment, mathematized geometrics, and designed the drainage system. Frank Paden defined the roadway sections and carried out the final civil engineering design. The park deck was designed by Stanley Innes. The retaining walls, ranging up to 34 feet in height, were designed by Stanley Innes and Randy Radock. The substructure for the aerial structure was accomplished with Joe Hofbeck designing the bents and foundations and Basil Kattula designing the abutments. The superstructure was designed by Donald Hoel.

Another aspect to the project was threading the roadways under the existing 11th Street Bridge, a steel structure erected at the turn of the century. Sattendra Jain designed the changes to the old structure to accommodate the new roadways. The illumination and signalization systems were designed by Joe Dorbin with support from Bill Holmberg. The specifications were eloquently written by Lin Wilson.

The construction of this complex facility on its difficult site in the heart of Tacoma is under the able management of Oral Conyers. The field construction operations are under the watchful eye of Fred Estep. Bruce Conyers has rejoined the Company to assist Oral and Fred in the field office.

FROM HONOLULU ...

Jorgen and Helen Skov came to San Francisco the first week in June; Jorgen was attending the Annual Builders Conference.

Millie Ajirogi represented the Company at the Hawaiian Secretaries' Week Breakfast in April.

SAN FRANCISCO OFFICE IN-BASKETS ENLARGED ...

The work load of the San Francisco office continues to be heavy. The major projects in progress are the MARTA aerial structure and the Arizona Avenue project, along with BART's West Portal Station... Increment II of the Hawthorne project was submitted, making the job 85% complete as well... Two interesting projects underway for the Calaveras County Water District are Increment II of the Ebbetts Pass Water Supply and Master Plan for telemetering system operation data to the District's headquarters office.

Almost complete is the final design of the Pearlridge People Mover for Rohr Industries. Tudor's participation in this project includes the civil and structural design of the aerial structure and station and overall construction management.

Projects completed in the last few months: Vallejo Environmental Impact Report, Calaveras County Water District Master Plan, a study report for the Nevada Irrigation District, and a Water Master Plan for the town of West Point.

ON THE ROAD ...

Louis Riggs' recent travels have included:

- A trip to Houston to attend the SAME 54th Annual Meeting where, as Southwest Regional Vice President, he presented to the Board of Directors the report of the Western Regional Conference which was held in Sacramento in April. He was also on hand to congratulate Hanford Thayer of the Seattle office at the Awards Luncheon when he was presented SAME's top award, the Gold Medal. (Louis has submitted an article "Designing the BART System" to the SAME Military Engineer magazine which will appear probably in the next issue.)

- A journey to Miami on Memorial Day (no time off!) to attend the American Consulting Engineers Council (ACEC) Annual Meeting. Louis is the Consulting Engineers Association of California's 1974 delegate to ACEC.

- Two trips to Atlanta (one in late April and one in mid-May) working on the MARTA project.

- The Institute for Rapid Transit Annual Conference in Los Angeles, June 18-21.

During May and June, Stan Froid had the opportunity to attend several outstanding transportation conferences. The first he attended--by invitation of John Ingram, Director of the Federal Railroad Administration--was the National Conference on the Role of U.S. Railroads in Meeting the Nation's Energy Requirements which was held in Madison, Wisconsin during the first week in May. Then, as Tudor's representative to the Transportation Research Board, Stan traveled to Washington, D.C. the last week of May to attend its 1st International Conference on Dual-Mode Transportation. Returning from a rush trip to Honolulu in late June, he stopped in Los Angeles for the last two days of the Institute for Rapid Transit Annual Conference.

After skiing with his family at Mt. Batchelor in Oregon during Easter vacation, Bob Janopaul returned to the office in great shape with a pre-spring sunburn/tan and headed for San Diego to negotiate, along with John Williams, the Forester Creek Project. He then departed for Seattle at the end of April and again in mid-May to work with Keith Bull and Mike Harrington on the Spokane project. During the second week in June, Bob spent a couple of days in Boise and Billings, Montana with Dave Toothman and Jim Potter coordinating some inter-office activities and project development work.

Matt Harrison spent the third week in May in Caracas signing the new design contract for the La Hoyada-Chacaito division of the Caracas Metro and then headed for Miami the last week in May furthering the Interama People Mover Project discussions and then to Atlanta organizing for the start-up of the Caracas Metro project. Matt was in the office for only a few days before he and Frits Fenger left to spend three days at the Naval Ammunitions Depot in Hawthorne, Nevada.

CONGRATULATIONS ...

Sunil Yadav received his United States citizenship in May after being in this country eleven years.

Bill Gin and Linda were blessed with a baby, Jennifer, 8 lbs. and 15 ozs. on May 22.

Ihhami Karaca and Mary were married on April 6.

BOISE SPECIAL EVENTS ...

The winter egg toss is history in the Boise office; but, with the arrival of spring, a Tudor fish derby is in the offing. It all began over a night crawler contest and a dispute whether the weight or length of the worm should rule. After the untimely demise of Randy Witt's king crawler the night before the contest, an inferior wriggler won. The basis of winning is still in dispute. So, it has been agreed that the king crawler is he who can tempt the appetite of the biggest fish.

An innovative approach to surveying--to be used when you forget to take the chain along: Use a Hewlett-Packard Distomat, a twelve foot carpenter's ruler and a HP-35 to convert inches to tenths. For more complete details on this precise surveying method, send a self-addressed, stamped envelope to Don Maxfield

The Boise office annual summer picnic will be held August 18 at the Toothmans' summer cabin, Centerville. Anyone planning to be in Idaho around that time is invited!

BOISE NEWCOMERS ...

Neal Carnam - Sanitary Engineer. A new recruit, Neal obtained his BSCE from Tufts University and his Masters in sanitary engineering from the University of California at Berkeley.

Adrian Moody - Surveyor. Adrian is a full-blooded Nez Perc Indian and is active in tribal affairs; he is currently a part-time political science major at Boise State University.

Charles Henry - a senior civil engineering student at Oregon State University. Charles is working on a field crew for the summer.

Roger Mason, Mark Nielsen, and Richard Schneider are new field assistants.

FROM SEATTLE ...

If you happen to see Dave Thompson dozing at his desk, the rumor is that he's been up late at night with the boys. In a way that is the truth, since his wife Maudjean just gave birth on May 31 to an 8 lb. (that's 3.6 kg. mass for you metric advocates) boy, their second son. Their first son Graham is two years old. They have named son number two: Damon. Dave is working part-time while attending the University of Washington. It looks like the baby came just in time for final exams! Mom and son are fine at home now.

Lin Wilson left June 2nd for Honolulu, Hawaii to work in our office there. He also will go to the islands of Kauai, Maui, and Hawaii to inspect facilities and consult with the authorities of the State of Hawaii with regard to future facilities, operation, and financing of the deep water port facilities. Lin's wife Judith joined him in Honolulu on June 13th.

Having recently graduated with a BSCE from the University of Washington, Dewitt Jensen rejoined Tudor on a full-time basis in Seattle. His main work interest is in the field of water resources. Hobbies include sports, numismatics, and--that most popular of all pastimes-- having a good time.

Frank Paden has just about attained a full working day since he returned to work on a rehabilitation program on February 19th. Frank had a recurrence of an illness (suffered in Honolulu on February 3, 1971) on August 27, 1973 which also happened to be Frank's 40+ birthday. He says that this "goes to show you can't have your cake and eat it too." Along with having completed design work on the Tacoma Spur Project, Frank is now involved with shop drawing review and design changes on both the Bayside Drive and Tacoma Spur Projects.

TUDOR SOUTH OF THE BORDER ...

Roberto Iniguez returned to San Francisco the second week of June from a business trip through South America. He spent some time in Panama and Chile following up on matters relating to our two current contracts in those two countries and then traveled to Ecuador.

PANAMA: In Panama, Roberto visited with Miguel Cornejo and Jake Young who are currently assigned to the Trans-Isthmian Highway Project.

Miguel has been in Panama since March and soon will be joined by his wife Lia, daughters Maria Lia and Maria Pia and son Miguel Estuardo born recently in Peru. Miguel will have some bad news to break to his children: A few weeks ago, Miguel returned home from work and found that his apartment had

been burglarized. One item taken was the children's toy box.

Jake and his wife Ann have been in Panama since April and are enjoying every minute of it. Happy coincidence: The client is going to extend Jake's assignment for at least another two months.

CHILE: While making a stop in Chile, Roberto visited with Raul and Imelda Martinez and daughters Patricia, Juliana, and Fernanda - the newest addition born on May 30th. Raul says the next baby will be a boy.



Raul and his family like Chile very much and want to stay as long as possible, which will probably be at least until 1976 since the client has expressed the desire to extend our present contract until June '76.

The San Francisco staff will hopefully get a chance to see Raul and his family in August when they will be vacationing in the Bay Area.

ECUADOR: Roberto was in Ecuador starting negotiations for updating the feasibility report and subsequent final design and construction supervision for the Land Reclamation Project in the municipality of Guayaquil. Tudor, because of the good work provided in 1967 during the feasibility study contract, was selected to do the job.

FROM SAN FRANCISCO ...

Randy Wilkinson has been appointed Manager of Project Development of the San Francisco office. In addition to this responsibility, Randy will function in a coordinating capacity for company-wide project development activity as a principal assistant to Bob Janopaul.

Joe Sacco spent three days in Houston, Texas learning all about offshore drilling towers at the Offshore Technical Conference, May 6-8.

Jim Ricereto has recently moved to Telegraph Hill and now enjoys each day a 20 to 25 minute walk to and from work... His paper "The Engineer's Response to Non-Engineering Criticism of his Professional Work" has been endorsed by the San Francisco Section of the American Society of Civil Engineering as its entry in the ASCE 1974 Daniel W. Mead Contest for Associate Members.

EVERYTHING YOU'VE ALWAYS WANTED TO KNOW ABOUT

Joe Hofbeck ...

Joe Hofbeck joined the Seattle office last year after he and his wife had taken a year's vacation from work. When things are really going badly, he is sometimes known to remark: "I liked not working a lot better than this." But, he is a nose-to-the-grindstone full time structural engineer now. Presently, he is the project engineer for the foundations of the MARTA standard aerial structures.



A native of Washington, Joe has many activities to keep his weekends full of enjoyment. He is an ardent kayaker, both salt water and rivers. Among his aqua adventures are several week long trips in the ocean off the west coast of Vancouver Island and a trip down the Rouge River in Oregon. Joe also fishes for salmon, skis cross country and hikes. He firmly believes the best way to get through the week is to plan something for the coming weekend.

and Cherie Gossett ...



Cherie Gossett, architect in the San Diego office, is shown in the photograph to the left during one of her field inspection trips to the Bargar Plant site. Cherie began work with Tudor as a drafts person in July 1972 after graduation from Rensselaer Polytechnic Institute. It soon became apparent that her background and abilities could be well employed on many other varied tasks. Thus, graphics design work, transportation planning, building inspection and shop drawing review, report preparation and review and planning were quickly and effectively mastered by this enterprising Aries. Cherie is presently engaged in a land use study to determine the locations of peripheral parking facilities for the Centre City Transportation Study and access and parking studies for the Worldpark Transportation Plan.

One may be able to gain insight into Cherie's diverse skills by investigating her background and interests. As an "Army brat," she has traveled extensively--a habit she obviously has not lost in view of her study tour of Brazil last fall and her upcoming 6 month trip to South America. Presently, her many outside interests include modern dance, baking, sewing, and swimming. However, her first love is the intellectual world and she spends much time reading to expand her already broad knowledge base.

Philosophically, Cherie generally supports the ideas of the Women's Liberation Movement as benefiting both men and women. Her hopes for the future are in keeping with her views-- a career, in teaching and research within the environmental field, and a family and home. With energy and enthusiasm, the accomplishment of that and much more is assured.

and Leslie Killingsworth ...



Leslie Killingsworth, sanitary engineer, joined the Boise office of Tudor in October 1971. He did his undergraduate work at Seattle Pacific College and the University of Washington and obtained his Masters in sanitary engineering from the University of Cincinnati.

Les' operation of Boise's Environmental Engineering Laboratories and his keeping abreast of technical advances in municipal and industrial waste treatment is establishing Tudor as an eminent force in the sanitary engineering field, resulting in the Idaho Creamery Association's inviting Tudor to participate in their annual convention in Sun Valley this fall to discuss the industry's waste discharge problems and in-plant wastewater reclamation solutions.

Les and his wife Pat have two daughters, Debra and Linda. He is active in the MARS program, so you "hams" can contact him by calling W7IDX.

and Joe Sacco ...

One of the many features that makes Joe Sacco, engineer in the San Francisco office, a unique person is instantly apparent to everybody: He is only a few inches shorter than Tevis Thompson. So, it is only natural that many people immediately associate him in their minds with basketball. In Joe's case, such a guess could not be nearer the truth, since he attended Drexel Institute of Technology on a basketball scholarship. Joe says his team made the NCAA finals in 1960 in the college division-New York City finals. However, he remains mum on the score.



Besides basketball which he prefers to everything (except women), Joe likes the idea of becoming independently wealthy and he is working in that direction as a partner in his brother's company, Advanced Electronics Design, Inc., in Sunnyvale. This firm is specializing in the design and production of sub-

systems for the mini-computer market. Joe lives in a townhouse in Palo Alto which is one reason why he has to get up at 6 a.m. every workday and may be one powerful motivation to become rich.

For the biography fans, Joe was born and raised on the East Coast where he worked with several consultants as a bridge engineer. He joined Tudor in 1970 helping Keith Bull in the design of the Warm Springs Creek Bridge. He then took a temporary leave of absence and joined DeLeuw-Cather International as Chief Structural Engineer in Taiwan, Republic of China, where he worked for 2½ years on the design of a 200 mile freeway including more than 199 prestressed concrete bridges. While in Taiwan, he supervised 55 engineers and draftsmen-- a fact that he does not let his present team members (especially his supervisor) forget.

and little fillings...

for stuff...

...the first time you see a crossword puzzle, it can seem like a very complicated and confusing thing. But once you get the hang of it, it's a great way to test your knowledge and have fun at the same time.



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TUDOR TEASER

1	2	3	4	5	6	7	8	9	10	11	12	13	■	14	15	16	17
18	■	19		■	■	20		■	21				■	22			
■	23			■	24		■	25		■	■	26		■	■	■	
27		■	28			■	29			30		■	■	31	■	■	
32		33	■	■	■	34		■	35			36	37		38	39	■
■	■		■	40	41		■	42									■
43	■	44	45			■	■	46			■		■		■	47	
48	49	■	50			■	51		■	52		■	53	■	■	■	■
54		55					■	56	57		■	58		59	■	60	
■	61		■	■	■	■	62				63	■	■	64	65	■	■
66							■		■	67		68	■	69		70	71
72			■	■	■	■	73		■	74			75		■	76	
	■	■	77			■	78		79	■	■	80		■	■	81	
82				■	■	■	■	■	83	■	84			■	■	■	

ACROSS

1. SAME Northwest Regional Vice President
14. His sailboat is named "Reverie."
18. SS_ Payment Center
19. W_m Springs Bridge
20. Abbreviation for company
21. Tudor's Annual Christmas Party
22. Person who practices yoga
23. Junction of BART lines in Oakland
24. _ _inerary
25. BART's _ _omatic train control system
26. Receptionist in San Francisco office (initials)
27. Stan Froid's home is in this town (initials)
28. Shortened first name of San Francisco engineer. His first and last name form the anagram "a cold front."
29. To attach by causing to adhere to a surface
32. Monkey (noun)
34. Short for papa
35. Conduits conveying wastewater from its source to the sewage collection system
40. Typewriter
42. Location of a recent Tudor EIR Study regarding wastewater treatment
43. Zero
44. Foretell, Prophecy
46. Man's name
47. Two Tudor offices are located in cities beginning with these two letters.
48. Contraction of I am
50. Sun
51. San Francisco engineer from Haiti: His last name ends in these two letters.
52. First 2 letters of a word meaning time spent away from home or work in rest & recreation
53. Kathleen Dorbin's (Seattle office) middle initial
54. La Hoyada-Chacaito
56. Scottish variation of "give"
58. Oficina Ministerial del Transporte
60. Exclamation
61. Regarding
62. Peers: homonym
64. You and me
66. Peachtree Street
67. First 3 letters of descriptive term which engineers are sometimes accused of ignoring
69. Job 303
72. _ _ day
73. Greeting
74. An early partner of Ralph A. Tudor in a consulting firm preceding the formation of Tudor Engineering Company
76. Opposite of yes
77. Leroy _ _
78. Pittsburg-Antioch Extension Project (initials)
80. \$52 million Tri-_ _m Project in central California
81. Engineer who "commutes" to Boise office from Nampa, Idaho (initials)
82. Largest civil engineering society in the U.S.
83. One (Roman numeral)
84. Airline (initials)

DOWN

1. _ _wthorne Demilitarization Facility
2. Manager of San Francisco office's last name begins with this letter
3. No!
4. Seattle engineer currently working in Tacoma
5. Hernando's (San Francisco draftsman) last name ends in this letter
6. 5th letter of this firm's name
7. Someone in Boise office who craves strawberry milkshakes, cheeseburgers & french fries (initials)
8. Wayne's (San Francisco engineer) last name ends in these two letters
9. Ted Purcell's middle initial
10. Gloria
11. First 2 letters in last name of San Francisco draftsman: He loves Japanese food.
12. _ _ Cajon Superblock
13. Tudor staff member newly assigned responsibility to assist Bob Janopaul with the coordination of company-wide project development (initials)
14. Whid_e _ Apron Construction Project
15. P_ _ple Mover System
16. Tudor engineer who was extensively involved in BART project and is now working on MARTA in Atlanta (initials)
17. Flex _ _
23. Tudor staff member currently working in Atlanta (initials)
24. Jo_ _t Venture
25. First two letters of a word meaning a small suitcase for carrying papers and documents
27. First two letters of a Tudor holiday in September
29. Tudor International, _ . _ .
30. California county where Tudor has conducted extensive water planning studies
31. Fixed _ _ _ _ transit--also, a structural fixture at House of Shields in San Francisco
33. Prior to implementation of federal projects with significant environmental impact, this report is required. (initials)
34. Tudor title for leader of extensive projects (initials)
36. _ _ _ _ _ , Inc. - A Tudor testing laboratory in Boise (initials)
37. Brand name of a cola
38. Light (abbreviation)
39. Help!
40. "I am off course!" Use first letter of each word.
41. Lugosi and Vadasz
42. Secretary to S. Froid and M. Harrison
43. Tudor engineer and specialist in construction who is currently working in the Northwest (initials)
45. Initials of airline Jerry Crews uses to travel between San Diego and 149 New Montgomery St.
49. Tudor transit project
51. A circle
53. Morning
55. Depend (verb)
57. For example
59. Major connecting structure of the BART System
63. To perceive by the eye
65. South America (initials)
66. Organization of public works professionals
68. First name of Tudor related firm in Mexico
70. Initials of Tudor officer whose last name contains two names
71. The best
73. Calculators (initials)
75. Lone architect in the San Francisco office (initials)
77. Initials of Tudor title for staff member responsible for project
79. Eleven (Roman numeral)

*Answers will appear in next issue.

FROM SAN DIEGO ...

Alex Martin is looking forward to W-day when the 4 mgd John C. Bargar Water Treatment Plant goes on line. Both Jim Teter and Loren Weinbrenner will also breathe a little easier when this \$1.6 million plant is debugged and in regular service, now scheduled for late June.

Ernie Ricks has rejoined the San Diego office and is again working on Forester Creek which is the same stream (but different project) that he worked on when he joined Tudor in 1972.

John Williams continues to look over the operations of the office, while at the same time handling certain projects--the latest being a report to AID on his review of two proposed dams in Indonesia. It is hoped that a follow-up job may result from his 4-week jaunt to the Far East.

Bert LaVigne is currently cleaning out his "IN" basket after a two week trip to England where he presented a paper entitled "Pedestrian/Bicycle Facilities for San Francisco Bay Area Rapid Transit Operations" at an International Bicycle/Pedestrian Seminar in London in May.

TUDOR — A SUPERPOWER?

A few weeks ago, Anh-Tuan Le organized a Tudor volleyball team, soon to compete in the San Francisco Industrial League. Opponents will include Bank of America, Southern Pacific, Bechtel, and Crown Zellerbach. Weekly practice games were played during April and May; and, while these early games had a distinct comedy of errors flavor, lately there has been an undeniable emergence of teamwork. Regulars on the team are Mike Ford, Bill Gin, Anh-Tuan Le, Wayne Nakamoto, Rainer Rungaldier, Tevis Thompson, Jim Victor, and Loren Weinbrenner. Backup support is provided by Gordon Little, Sunil Yadav and Don Yamagishi.

MORE FROM SAN FRANCISCO ...

Tevis Thompson, Jr., our new Assistant Controller, laughingly referred to as Bill Davis' bodyguard, is taking over many of the accounting functions previously handled by Bill. This is necessary since Bill has the added duties of Fiscal Administrator for PBTB's San Francisco operations on the sixth floor at 149 New Montgomery. This transition is functioning smoothly and effectively.

As part of the Joint AIA, CSI, Producers' Council Committee on Continuing Education, Grant Larsen participated in the planning of meetings and presented four seminars on "Construction Materials." He has four more planned on "Different Aspects of Office Practice."

We are glad to see that Sylvia Miller is with us again after attending to a back problem for 2½ months under her doctor's care.

Leone Morris has been home and under her doctor's care since her auto accident in March. We have no definite word as to when she will return to work, but she says that she is beginning to feel much better.

The Tudor San Francisco office will be picnicing on Angel Island, Saturday, July 27.

WHO'S NEW IN THE SAN FRANCISCO OFFICE ...

After the closing of the BART systemwide office in Oakland, Beverly McLaughlin transferred from PBTB to join the Tudor San Francisco office secretarial staff.

Also joining the secretarial staff is Stacy Bock. She moved to the Bay Area about three years ago from Boulder, Colorado and is now living in Marin County.

Janet Stubbe, drafts person, joined Tudor on June 3rd and is now preparing exhibit drawings in connection with the Calaveras Water Master Plan.

Vivian Rankin, accountant, who joined Tudor on April 15th not only has a varied accounting background but also has a very exciting hobby. Vivian is a licensed pilot and is preparing to be checked out in flying her recently acquired T-6 World War II trainer plane which is fully aerobatic. Perfect for a person who prefers loop the loops and barrel rolls at 4000 feet to watching TV on Saturday afternoons! In a more conventional plane, she and her husband Joe have flown all over the West Coast and to a number of islands in the Bahamas--great trips except for the anxious moments when flying through thunderstorms.

Michael Goldberg joined Tudor in June after receiving his MS in structural engineering and his BS in architecture from the University of California, Berkeley. His first assignment will be in connection with the MARTA project.

Returning to Tudor, after a 1½ year's leave of absence to study at Stanford, is Bill Buckland. Bill's new assignment will be on the MARTA project.

ACKNOWLEDGEMENTS. . .

Feature Editors: Bob Myrdal-Tacoma Spur Project; Margith McKean-Cherie Gossett's profile; Hanford Thayer-Grandad Creek Bridge; Mike Viarnes-Joe Sacco's profile; Roberto Iniguez-news from South America; Gerry Gibney -Atlanta news

Contributing Editors: Dave Thompson, Kathleen Dorbin, Rainer Rungaldier, Katherine Beers, Frank Paden, Joe Hofbeck, Lin Wilson, Jerry Crews, Dewitt Jensen, and Jim Potter

Special thanks to Frank Chiappella for graphics

TUDOR

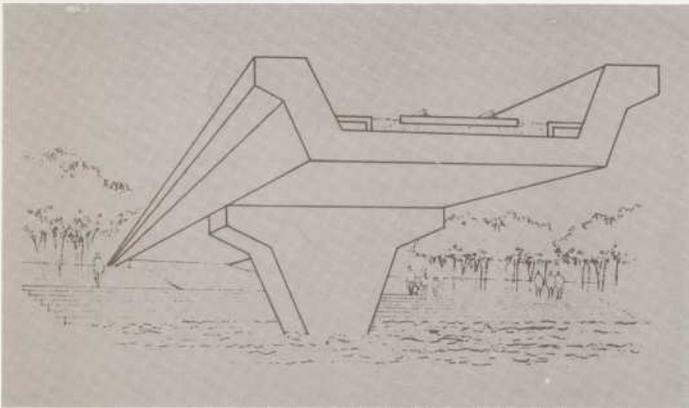
NEWSLETTER

FALL 1974

TUDOR "GIRDS" FOR NAPA BRIDGE . . .

A new project that was started this August in the San Francisco office involves the preparation of a Design Memorandum for a new railroad bridge across the Napa River at a site within the City of Napa, California; completion of the Design Memorandum is due by December of this year.

The crossing serves a single track railroad line for the Southern Pacific Transportation Company and will consist of four spans of 70 feet. The work is being carried out for the San Francisco District Corps of Engineers and is part of the Corps' Napa River Flood Control Project. In the development of design alternatives, several different structural configurations have been studied including deck girders and through girders of concrete and steel. One of the alternative studies, a post-tensioned concrete through girder, is shown in the architectural sketch below.



Mike Viarnes is project manager for this study and Joe Sacco is project engineer; assigned to serve as the design review group for this project are Randy Wilkinson and Keith Bull.

MEXICO: The Sada Tudor office in Mexico continues work on a variety of projects such as the Fundidora office building, the tomato processing plant and several small projects in addition to preparing proposals for several new projects.

CHILE: Work continues on the freeway construction supervision in Chile. Tudor's original contract will terminate in November; however, the client is willing to extend the contract for an additional period of 20 months. Negotiations are under way and will be finalized before November.

PANAMA: Work continues on the technical assistance provided by Tudor for the final design of the Trans-Isthmian Highway (first stage only, which is approximately 36 km.). Based on information obtained by Bob Iniguez during his last visit to Panama in September, it seems very probable that Tudor's contract in Panama will be extended beyond the original eight months until such time as construction plans and specifications are completed for presentation to the World Bank.

VENEZUELA: After many months of negotiations and trips to Caracas, Matt Harrison was able to finalize the contract for PBTB's participation in the final design of the second portion of the Caracas Metro (La Hoyada - Chacaito Division). Local consulting firms will handle the design of all civil works and PBTB or the individual firms will handle the more specialized portions of the design such as train control, electrification, fare collection. Tudor will be specifically involved in the design and preparation of contract documents for escalators, fare collection and trackwork.

ECUADOR: Negotiations continue regarding finalizing a contract for the Guayaquil Land Reclamation Project.

SAN DIEGO PUTS FINISHING TOUCHES ON STUDY . . .

As the Centre City Transportation Study approaches its completion date, the jargon of transportation planning seems to have temporarily replaced Bernoulli's equation in the San Diego office. Tudor has been providing the civil engineering backup to BRH Mobility Services Company in a study of a transportation system to serve the San Diego central business district. As if learning the jargon wasn't bad enough, John Williams and his crew had to translate it from a Texas drawl, as the Houston-based staff hitched up in the Tudor corral.

INNOVATIVE SURVEYING . . .

The Marsh Creek Floor Hazard Study, a Boise office project for the Soil Conservation Service, is



Boise's surveyors: Don Maxfield (at transit) and Dick Waller

now complete. Ted Purcell was Project Manager with Steve Alters helping as Project Engineer.

Don Maxfield, surveyor par excellence, came up with several innovative ideas that reduced the field survey effort significantly.

TUDOR VOLLEYS AND BREAKS EVEN . . .

San Francisco's volleyball team, in its first year of participation in the Industrial League, managed to place fifth with a 4-4 record. After losing the first game by a disastrous score to Bechtel's "A" team, a team beaten by Tudor in previous practice scrimmages, Tudor shook off its tournament jitters and settled down to improved play towards the season's end. So impressive was Tudor's play that two opponent teams defaulted their matches. This accounted for half of the four wins.

Most of the participating teams are traditional competitors whose team members have played together for years. Some companies even have tryouts to pick teams from their thousands of employees. Fierce rivalry exists between the top four teams--IBM, Bank of America, Bechtel, and Crown Zellerbach--and each comes back year after year at the others' throats. No doubt Tudor, too, will return.



bottom row - Eva Spatenka, Bob Iniguez, Loren Weinbrenner, Wayne Nakamoto, and Bill Gin

top row - Anh-Tuan Le, Tevis Thompson, Mike Ford, Jim Victor and Rainer Rungaldier

SEEN IN BOISE . . .

Recent visitors to the Boise office included Stan Froid and Robert Janopaul on routine business, John Williams from San Diego who conducted a class in hydrology for P. E. license hopefuls and Francois Martin from Seattle who gave Boise office personnel a short course on the operation of the HP 9830. Paul Kunz and Don Payne are now "experts" after absorbing Francois' excellent advice and instructions.

COMING ABOARD IN SAN FRANCISCO . . .

Toshitaka Zusho, a graduate of the Architectural School of Tokyo, Waseda University, joined the San Francisco staff on August 12. In addition to having many years of fine experience behind him in the drafting field, Toshitaka is a karate expert and has a Black Belt in judo.

Wu-Chieh Chen, after obtaining his master's degree in structural engineering at Marquette University, joined the San Francisco staff on August 26. Especially happy to be working with Wu-Chieh is Joe Sacco -- like old times when they worked together in Taiwan.

Helen Grant, joining the secretarial staff in September, comes to Tudor from De Leuw, Cather & Company. She will be working with Bob Janopaul, Randy Wilkinson, and Gene Altshuler.

Jim Meyer joined the San Francisco staff on September 16 as manager of traffic and transportation projects. A native San Franciscan, Jim graduated from Berkeley, after World War II service in the Air Force. Following experience as a research assistant at the Institute of Transportation and Traffic Engineering, Berkeley City Traffic Engineer and transportation consultant to the Republic of Indonesia, he joined De Leuw, Cather & Company where in the next 18 years he progressed to vice president in charge of traffic and operations in the San Francisco office. His experience there included projects in New Zealand, Australia, Hawaii, Alaska and areas throughout the western U. S. Jim and his wife Mary live in Marin County with two of their four children remaining in the nest.

120,000 BEES AT SEATTLE GATHERING . . .

The second annual Seattle office beef and brew picnic was consummated in August with some forty-one participants made up of both past and present Tudor employees and families.

The venue, once again, was GAP acres, rural estate of Harry Hosey, located in the rustic wilderness of Redmond suburbia. The weather was fine and there was a lot of good food including prime rib turned slowly over a charcoal fire, candied yams, salads and cakes -- all washed down with mugs of ice cold draft beer.

If anyone noticed that there was an unusually high amount of bee activity in the area, this could probably be attributed to the fact that Harry is now in the bee-keeping business, having a stock of two hives with approximately 60,000 bees in each hive. Harry scorns the use of gloves and face mask when handling his bees, falling back on the philosophy that "all you need is love."



EVA & TED & MARGITH & SATENDRA

eva spatenska . . .



Eva Spatenka, engineer in the San Francisco office who--before her marriage in August--used to be Eva Necas, began working for Tudor in 1973. Eva's being at Tudor marks a point in a long succession of interesting, often harrowing, experiences: leaving Czechoslovakia, coming to the

United States, working in New York, and arriving in San Francisco.

In July 1968, Eva left Prague to visit her uncle in the United States. She had recently graduated from Technical College in Prague as a Design Engineer and was excited about her first trip to America. Her high spirits were soon dampened, however, as the Russians again invaded Czechoslovakia. This meant that if Eva returned to her home and family that she would be imprisoned for illegally leaving the country. Therefore, the only thing she could do was to stay in America and make a new life for herself.

So, as she began to take root in America, she took a job in New York as a draftsman. She used this time to learn English and slowly began to get involved in her true profession -- design engineering.

After vacationing in San Francisco, Eva decided to return to the City by the Bay and make it her home. So, in January 1973, she came back to San Francisco and found her way to Tudor where she is presently working on the MARTA Aerial Structure Standards Project.

Eva lives in Orinda with husband Rudolph --also an engineer. Both are very busy fixing up their new home, playing tennis, and planning ski trips to Sun Valley.

ted purcell . . .

Ted Purcell, a long-time Tudor employee, joined the Boise office staff in the fall of 1973. Ted is a graduate of the Coast Guard Academy and has a master's degree in structural engineering from Colorado State University. Ted and his wife, Pat, and two sons, Teddy and Billy have taken to Idaho and enjoy fishing, hiking, camping and even the winter sports the area offers --- though Pat was unfortunate enough to break her leg on an early skiing trip last winter.



Ted has agreed to instruct the structural analysis class for the young engineers studying for their P. E. exams.

Ted was recently elected Secretary-Treasurer of C. E. I.

margith mckean . . .



If you decide to move, Margith McKean, administrative assistant in the San Diego office, has become somewhat of an expert in the field. Not only has she moved three times in the last year (including the San Diego office's move several months ago) but her childhood years as a "Navy Junior" were spent shifting from one coast to the other.

After graduation from Duke University with a BA degree in psychology (which, in her opinion, qualifies you to do absolutely nothing but gives you a background in almost everything), Margith moved (again?) to Hawaii where she worked for several years in education (the last thing she wanted to do) at the University of Hawaii. While there, to beat the high cost of apartment living, she resided in Keehi Boat Harbor on a 60 foot converted inter-island cargo carrier. This provided an excellent opportunity for plenty of sailing in and around Hawaii and even as far as the mainland when she was part of a crew delivering one of the '69 Transpac yachts back to its home port in Newport Beach.

Margith arrived on the San Diego scene in 1971 to work on a 2-year preschool project for the San Diego Children's Centers. When that project was completed, and after an extended vacation back East, she joined Tudor in June 1973.

Hobbies occupy much of Margith's after work time (when she's not moving), mainly in the area of arts and crafts and woodworking. And when she is not at home "dinking" on projects, she can usually be found at a concert --one featuring Led Zeppelin rather than Liszt or Black Sabbath rather than Beethoven--or at the gas station having her MGB fixed.

As far as her future plans are concerned, Margith intends to remain flexible, maintaining a firm belief in the old proverb, "You never know what's around the corner."

satendra jain . . .

Satendra Jain, structural engineer in the Seattle office, joined Tudor in March 1973 after: doing his undergraduate work at the University of Delhi, India; travelling one-half way around the world from New Delhi to the State of Washington in 1970; and obtaining his master's degree in structural engineering from the University of Washington. In December 1973 he left for New Delhi. This trip home was especially memorable because he got married! Returning to Seattle in February, Satendra completed his around-the-world tour. In the summer, he enjoys hiking, swimming, and tennis; in the winter, his attention is diverted to badminton, ping pong, visiting friends and going to the movies.



IN AND AROUND SAN DIEGO . . .

Sandwiched in between a continuing work load on four projects, John Williams - San Diego's Office Manager - ups and decides to get married. Prenuptial priorities competed with engineering priorities and the usually dry contract language assumed a new flavor. Since Janet hails from Melbourne, Australia, things were a bit frantic for awhile as Janet tried to learn "American" and driving on the right. But finally all arrangements were set for September 7 followed by a trip to Mexico. For the record, John met his new bride in, of all places, romantic Bali while on a weekend R&R trip when he was in Indonesia reviewing an AID water resources project. It only goes to show that, for some people, out-of-town business trips can be rewarding. (And we were worried about his missing tennis practice.)

Speaking of business trips, Alex Martin is currently trying to waterproof his HP-35 in preparation for his upcoming junket to Panama to help write the specifications for the Trans-Isthmian Highway Project. Much to the consternation of Jerry Crews, Alex -- while on duty in Panama City -- will not be able to kibitz on the preliminary design of the Forester Creek Flood Control Channel.

Ernie Ricks is currently waiting to take his final check ride for certification as a Private Pilot. It is a well-known fact in the San Diego office that Ernie is the only Tudor staff member really overseeing work on the Forester Creek Flood Control Project; he flies out of Gillespie Air Field located right in the middle of the site!

Bert LaVigne, having sailed REVERIE north from San Diego with Barry and Beth and co-owner Bill Moore, arrived at the Managers' Meeting in San Francisco in boating togs. Typical of off-shore cruises in July, there were two chilly days in pea soup, one windy day for excellent sailing, and the remainder ranged anywhere (and everywhere) in between.

BOISE & SEATTLE FALL HOOK, LINE AND SINKER . . .

The annual salmon fishing trip was held on Saturday, July 13. A boat was chartered for the trip from Westport, Washington. Seventeen persons were aboard, consisting of members of the Seattle and Boise offices. Their families and friends were also present. The weather during the trip was sunny and very warm--fortunately, the sea was fairly calm. However, the fishing was not that great; 25 salmon were caught along with about an equal number of



sea bass. Lois Thayer, pictured above, won the prize for catching the biggest salmon.

SF PICNICS IN MIDDLE OF BAY . . .

Early on July 27, Blanche and Bill Davis, the Don Croft family, the Gene Altshuler family (and friends), Stacy Bock with friend Tom Cash, and Gene's trusty little red wagon toting the supplies set off in foggy skies from Tiburon on the first ferry for Angel Island to stake out a site for the 1974 office picnic. A perfect spot was located and preparations began for the surge of picnickers. Around noon the skies cleared and along came more Tudor people with their picnic baskets.



When Anh-Tuan Le arrived with all his volleyball equipment, a playing court was constructed and rules of the game established; then everyone was off the benches and ready to play. It was immediately evident that the court had one drawback--or rather drop off--which led straight down to the beach. Since Anh-Tuan brought only one ball, it was necessary to form a guard team of Stan Froid, Bob Janopaul, and Bill Davis to keep the ball from repeated washings in the Bay.

WHO'S WHAT IN ATLANTA . . .

Current assignments on the MARTA project in Atlanta are: Paul Potter-Deputy Manager of the Design Division; Doug Mansfield - Manager of the Engineering Department; Bob Ganse-Line Manager responsible for the route location and preliminary design of the East Line and recently assigned responsibility for the South Line; Bela Vadasz -Line Manager of the complex hub area (5 Points Station) and the North Line; Wil Pacheco-recently transferred from the Design Development Department where he served as Line Manager of the West and South Lines to Manager, A-E Design Management office; Ken Heilig - Project Engineer responsible for the planning and design of yards and shops; Roger Brassfield - Deputy Manager of the A-E Procurement office; Gerry Gibney - recently assigned to the A-E Design Management office where he will be the Project Unit Manager for the Proctor Creek Branch as well as continue to coordinate the Arizona Avenue Project currently being designed by Tudor in San Francisco; Dixie Tomlin - Traffic Engineering Section of the Design Development Department; and part-time: Louis Riggs and Stanley Froid, member and alternate respectively of the Board of Control and Board of Consultants.

POINTS OF VIEW . . .

*"HAS INFLATION CHANGED
YOUR WAYS OF SPENDING MONEY?"
(asked in San Francisco)*

Ocie Williams



Yeah! As a matter of fact, before I got married seven months ago, I was fairly loose with my money, but now my wife and I have a budget, not rigid or anything, but a guideline. Now we go out maybe only twice a month and really splurge. As for groceries, we try to be thrifty, seek out bargains, and hit the fruit stands now and then. Why, just the price of avocados really illuminates the economic situation! I would say that I definitely have a different outlook on money now. Oh, a couple of months ago, I took a basic sewing class and made the blue denim jacket I wore last Wednesday.

Gloria Aguilar



Boy, has it! It's terrible, believe me. Why, big cans of juice--the cheapest brands--used to be 29¢, then 31¢ and now 41¢... in less than three months. Every time I go to the market, something is always higher.

Alfred
Korbmacher



No. . . . What you have to buy, you have to buy; you just have to pay what is asked. I cannot just eat less now. For instance, gas costs more but you do have to use a car once in awhile.

Helen Grant



Well, my St. Bernard eats more Purina Dog Chow (and no Alpo); I drive my car 2 days a week instead of 7; I learned to sprout, so that I could boycott lettuce and also save money; I bake more often, and if I feel like buying something frivolous--I don't.

Lou Silva



Sure, this year we'll spend only eighteen days in the Bahamas instead of our usual two months. Seriously, we have set a list of priorities beginning with the necessities: Christmas in Caracas with in-laws, a new car, re-decorating the house, a new suit, or food.

Vivian Rankin



I don't think it has too much because we just don't eat as much as we used to. I'm not representative, though, because there are just the two of us. But for people who have families to feed, it must be terrible. Joe and I eat about half as much meat now, so even though the prices have doubled, it costs us about the same. Boy, do I notice the difference in the price of gas with a \$400 gas bill --- airplanes!

ATLANTANS' GETAWAY . . .

Bob Ganse managed to sneak away with Joan to Myrtle Beach for three days for some sailing; but, while launching the boat on the first day, he broke the mast. Joan claimed she had a wonderful time since she is really not a sailing enthusiast... Bela and Eva Vadasz took a mini vacation and drove down to New Orleans. They missed the Mardi Gras but toured the French Quarter... Wil, Marge and Jack Pacheco managed to take a few days to travel to Cocoa Beach, Florida and visit the Kennedy Space Center... Gerry and Carol Gibney have been spending their leisure days backpacking and fishing in Georgia and South Carolina... Roger Brassfield boarded a plane and headed for Oregon to visit his family... Ken Heilig and family took a vacation to Florida and then travelled to Washington, D. C. to visit Ken's brother.

69+ INVADE MUSTANG RANCH . . .

The Boise office summer picnic at the Toothmans' Mustang Ranch was attended by 69 Tudorites and friends. Horseshoe pitching, swimming, storytelling and beer drinking were the order of the day on August 18.



FROM HONOLULU . . .

Millie Ajirogi and her family spent a couple of weeks in the latter part of August on the north coast of Oahu absorbing darkening rays of sunshine.

Jorgen and Helen Skov travelled to Denmark in September.

NEW IN BOISE . . .

Nancy Jo Mallard, better known as "Jo," has joined the Boise staff as a laboratory technician in the Environmental Engineering Lab. Jo worked in a similar position on the East Coast while her husband was in the service.

TUDOR STUDIES DEEP WATER PORT ISSUE . . .

The Seattle office has undertaken a unique project related to the North Slope in Alaska. Puget Sound could end up handling the "lion's share" of North Slope crude oil. The Sound has great water depths along its shoreline. Since residents are environmentally oriented, they face a problem in attempting to evaluate the economic benefits in relation to the risks of oil spills.

The State Legislature requested, for its January 1975 session, the Oceanographic Institute of Washington to prepare a feasibility study of Offshore Terminal Systems for Petroleum Transfer. Tudor Engineering Company has joined with R. R. Nathan Associates of Washington, D. C. under the name of Nathan-Tudor and is charged with preparing the engineering and economic portions of the study.

The main purpose of the study will be to inform the Legislature of the problems involved in developing a deep water port along the coast of Puget Sound or Strait of Juan de Fuca, expansion of existing ports, or a "do nothing" alternative. Approximately 40 combinations of supertanker terminal, refinery and pipeline configurations are being considered. Lin Wilson is the project engineer for Tudor, assisted by Joe Hofbeck and Harry Hosey.

TURNOUT AT REGIONAL MEETING . . .

Tudor was well represented at the annual regional meeting of the Consulting Engineers of Idaho in Coeur d'Alene in July. In addition to the Boise contingent of Dave Toothman, Ted Purcell, and Les Killingsworth, Keith Bull from Seattle and Robert Janopaul from San Francisco -- along with representatives from seven northwestern states, California and Washington, D. C. -- attended this informative meeting.

SAN FRANCISCO'S GOOD OLD SUMMERTIME . . .

Fresh sweet corn, home-grown squash and tomatoes, and country fresh air were part of the boarding benefits for Anh-Tuan Le when he spent a week at his sister's farm in Marengo, Illinois as a part-time cowpoke. The city kid was in an old pickup for his "first time ever" roundup, trying to ferret out from among the dusty cornstalks a 750 pound Angus named Daisy Boy. The day before, Daisy Boy had apparently overheard talk about the auction and, not liking the idea, he sprang the gate. When Anh-Tuan's brother-in-law, on horseback, finally rounded up the animal with a successful lasso toss, troubles were almost over. The owner of those cornfields demanded \$50 cash in hand before letting pass steer and cowboys -- \$15 for the corn destroyed, \$35 for an alleged (unwanted) stud service call on the farmer's favorite dairy cow.

Randy and Jeannine Wilkinson and daughters Amanda and Sarah had an early summer vacation backpacking and camping in the Trinity Alps and Lassen National Park. While the vacation is over, the memories linger on, along with the beard Randy grew during that two weeks.

In early August, Stan, Harriette and Caroline Froid boarded the "redeye" to Boston for the start of a touring vacation that would extend some 3600 miles before they would bid the East Coast area good-bye from the Atlanta airport. Between Boston and Atlanta, they relived the landing at Plymouth; investigated Harriette's relatives' (the President Adams family) former residence and background at Quincy; roamed the battlefields of Lexington and Concord; paid respects to the witches' haunts in Salem; ate lobster in Bar Harbor, Maine and maple sugar in St. Johnsbury, Vermont; played the true tourist at the Empire State Building, Statue of Liberty, etc. in New York City, rode the subway too; with Raymond Massey, they toured the battlefields of Gettysburg; missed the President in Washington, D. C. when they stopped by, since he hadn't moved into the White House; took up brief residency in Williamsburg; heard the rationalizations from Norfolk to Savannah as to how someone else really won the Civil War; enjoyed the charm of sleepy Savannah. But the real thrill of the southland was having an opportunity to see most of the transplanted Tudorites before the departure hour arrived.

In August, Tevis Thompson and family spent one week in a log cabin living like 1849ers. The cabin is located on a lake in the Sierras and can only be reached by boat. Living in the rough had only one drawback: icy cold water baths.

Blanche and Bill Davis spent two weeks in Aptos, California in a house overlooking both the beach and the golf course. No telephone, so they spent a very restful vacation.

IMPROMPTU BEACH PARTY . . .

On a certain hot Wednesday afternoon in San Diego in August, Jerry Crews issued a sigh of relief that the El Cajon Civic Center drawings were finally submitted for review, threw down his pencil and said, "Let there be a beach party!" And there was a beach party -- scheduled after work the following afternoon. Unfortunately, the Drafting Department, consisting of Ernie Ricks and Romy DeLeon, was absent en masse. Ernie was out logging hours in a Cessna and Romy had difficulty rounding up his 8-member family on such short notice. Nonetheless, 25 dauntless souls gathered on the beach at La Jolla Shores for surfing, frisbee contests and (of course) imbibing beer. Not much sun, but loads of fun.



METRO DISCUSSIONS HELD IN CARACAS . . .

Roberto Iniguez returned to the San Francisco office on September 15 after a two week trip through Caracas, Quito and Panama. The basic purpose of the trip was to meet in Caracas with members of PBTB, S. A. and the local civil designers to discuss the schedule and coordination of Tudor's effort on the final design of the La Hoyada-Chacaito Division of the Caracas Metro. On the way back, Roberto stopped in Ecuador and Panama to check on matters pending in those countries.

FROM PANAMA . . .

Miguel Cornejo's wife and children have joined him in Panama. . . Jake Young completed his assignment in Panama and returned to the U.S. on August 1. Since highway technical assistance was still required, Tudor sent Arthur Hayler on August 14 to replace Jake Young. He will be in Panama two months. . . Around October 1, Alex Martin from the San Diego office will be going to Panama to assist the client on the preparation of the engineer's estimate and specifications for the Trans-Isthmian Highway Project.

STOPPING BY THE SAN FRANCISCO OFFICE . . .

Visitors from Mexico City in the San Francisco office in late August were Guillermo Rangel, Manager of Sada Tudor S. A. and Mr. Gonzalo Tijerina, General Manager of Constructora Sada Rangel. They were kept busy finalizing the participation of each firm on the Cananea Solvent Extraction Plant Project.

Raul Martinez will be in San Francisco around the 23rd of September on his annual leave. He will spend most of his time in Mexico, but will journey to New Mexico to attend his parents' 50th wedding anniversary on September 28.

MORE VACATION NOTES FROM SAN FRANCISCO . . .

This summer, after long family discussions, the Heinz Muellers decided not to go to Mexico and study all the unpleasant aspects of Montezuma's revenge and dry up in the hot and merciless Mexican sun. Instead they made plans to explore the Pacific Northwest. Their tour led them to Mt. Shasta, Crater Lake, the Olympic Peninsula, Vancouver Island, the southwestern edge of the Canadian mainland, Mt. Rainier, and down the Oregon coast back to the cool Bay Area. Cool and rainy weather they did not encounter during their vacation. No, the beautiful countryside was mostly vibrating in the hot (seemingly Mexican) sun with the Mueller clan, rushing by in their ancient Dodge, trying desperately to reach the next cooling, soothing swimming pool or lake. They came back sunburned and puzzled about the rumors they had heard of abounding rain and fog in the Pacific Northwest.

Bev McLaughlin flew to Waikiki in July for a week of fun and frolic in the sun. (She advises that the nights were not too bad either.) Bev, a former resident of Hawaii, was kept busy seeing old friends and making new memories. Having entered a Charleston contest-- and won-- the night before leaving, she returned to work completely exhausted.

Gilberto Zambrana travelled with his wife Lillian and son Vincent to Chicago for their vacation this year. They selected Amtrak for transportation, travelling the scenic Denver route from San Francisco. Their relatives showed them some high spots, including the Adler Planetarium and Museum of Science and Industry. They also visited the newly completed Sears Tower and from the observation area on the 103rd floor looked out in all directions on Chicago. After the two weeks' change of pace and surrounding, they say they are glad to be home again.

Phyllis and Lou Salaber managed to jet off to Europe for seven weeks this summer. To maximize their travelling efficiency and create the atmosphere of a second honeymoon, they reluctantly left their three children with relatives.

After picking up a new Opel in Rudesheim, Germany on June 4, they proceeded to spend the next 50 days driving and walking through Germany, Switzerland, Austria, Hungary, Yugoslavia, Italy, Greece, Monaco, France, England, Belgium, and the Netherlands. They found the weather accommodating; all Europeans to be friendly and helpful; the roads good enough to put 6700 miles on the car and the prices reasonable, except for gas.

Late in June, the Janopauls-Bob, Beth and daughter Margi- spent a relaxing week in central Oregon and managed to catch a few trout. In mid July, Bob was off on a junket which included two days in the Seattle office, followed by a Pacific Northwest Consulting Engineers meeting in Coeur d'Alene, Idaho. It was quite a gathering in that the Toothmans, the Bulls, the Purcells and the Killingsworths all made the scene. With Expo in Spokane just across the border from Idaho, a pleasant Saturday afternoon and evening were spent touring the World's Fair. In mid August, Bob was off again to the Seattle office followed by several days in Boise where he had the pleasure of joining the Boise office staff for their summer picnic on Sunday, August 18. Working around the picnic event, Dave Toothman and Bob managed to put in a little trout fishing. By mid September, it was time for Bob and Beth to return to Oregon for a week to bag a few more trout before the end of the season.

BEST WISHES . . .

After two and one-half productive years with the San Francisco office, Jim Victor has taken a year's leave of absence to work on his master's degree in structural engineering at the University of California, Berkeley. But, before returning to school and beginning preparation for the November examination for professional registration, Jim is taking two weeks to go to the Bahamas to relax and visit his father.

