ELMS Bandsmen In Honor Band

Members of Eagle Lake Middle School bands who earned positions in the Colorado County Honor Band for 1975 are pictured above. They are, left to right, bottom row: Monica Barela and Roberta Tomchesson, clarinet; Mary Young, cornet; Dianne Van Nort and Johnna Griffith, clarinet; Lori Mahalitc, cornet; Julie Clipson, clarinet; second row: Cheryl Crabb and Lain Yanez, flute; Clifton Bradshaw, French horn; Madonna Hamilton, cornet; Barbara Fryfort, clarinet; Peggy Leopold, tenor saxophone; Mike Walker, trombone; third row: Carol Crabb, clarinet; Michele Sibley, flute; Kathy Frazar and Norma Lira, bass clarinet; Tracy Gertson, flute; Rich Farris, percussion; Mike Duarte and Philip Leopold, cornet; fourth row: James Zickuhr, Russell Johnston and Russell Wick, saxophone; Curt Wegenhoft, cornet; Stephen Spaniel, trombone; Paul Vasut and Robert Moss, baritone horn.

Rice Band Students Capture 39 Positions In Honor Band

Concert By County Honor Band In Columbus Sat.

Saturday, March 8th was a real blue star day for 39 junior high aged Rice Band students. These students were a part of over 200 young people in Colorado County bands who were competing for 98 positions in the 1975 Colorado County Honor Band (CCHB). A yearly event, the CHB is an effort by the band directors throughout the county to gather the cream of the crop of band students together under one roof. After the top students have been selected via try-outs, they are assembled as a full-sized concert band for a reading rehearsal to select music for a public concert held soon after. This gives those extra-talented band students in the county the opportunity to play under ideal conditions of balance and instrumentation with others of similar, high caliber.

The concert by the 1975 Colorado County Honor Band will be given in the Columbus High School Auditorium this Saturday, March 22 at 7:00 p.m. The guest clinician-conductor will be David E. Shepherd, [illegible] The program will include selections of popular, contemporary and semi-classic music. The concert is open to the public. No admission will be charged.

The hold for the event this year is Columbus band director, Don Spitzenberger. The coordinator is Gene Polnick, director of bands at Eagle Lake and Garwood schools.

Miss Dina Marie Kohleffel Is Honored

Miss Dina Marie Kohleffel, Rice High School senior, was the honoree for a delightful graduation party, March 15. Her aunt, Mrs. Dale Cassidy, complimented Dina, her mother and a group of her friends beginning at the Cassady home at 10:30 o'clock Saturday, morning, March 15.

Snacks, juices and Cokes, were served in the hostess' home before leaving for Westbury Square in Houston. There they enjoyed a lunch of lasagne, chicken cacciatore, green salad, bread sticks, French bread and ice tea at Feroni's Italian Restaurant. [illegible] attended a most outstanding art show and later went shopping before returning home. They visited Rupplehelmer's Ice Cream Parlor at which time they had a delicious dessert.

A special guest was Dina's mother, Mrs. Raymond L. Kohleffel.

Mother Of Lester Euers Passes Away

Mrs. L. T. (Nestie) Euers of Austin, the mother of Lester Euers of this city, passed away Tuesday, March 11th at the age of 94. She was born on December 7, 1880.

Funeral services were held Thursday, March 13, at 2:00 [illegible] Funeral Home in Austin with Rev. Eberhart officiating. She was put to final rest in the Live Oak Cemetery in Austin. Pallbearers were her grandsons.

Mrs. Euers was a faithful member of Pleasant Hill Baptist Church, south of Austin.

Preceding her in death in 1973 was her husband. Survivors include three sons, Lester Euers of Eagle Lake, Norman Euers and Thomas Euers of Austin; one daughter, Mrs. Lura Plumley of Austin; seven grandchildren and six great grandchildren.

ATTEND BEAUTY SHOW

Mrs. Marcy Salinas and Misses Rose Yanez and Olga Salinas were in Victoria on Monday to attend a beauty show "Super Salon '75" presented by Helene Curtis. The show was full of super ideas for hair styling easy the ladies.

Comptroller Bob Bullock said an audit uncovered a $3 million tax liability against a gas production company.

Savings Bond Goal Is $200,000

According to E. G. Miller, Chairman of the Colorado County Savings Bonds Committee, the 1975 Savings Bond goal for the County is $200,000. January sales of E and H United States Savings Bonds totaled $21,118 for 11 per cent of the sales goal.

Garden Club Has Program On Gardening

The Eagle Lake Garden Club met Wednesday, March 12 in the home of Mrs. E. L. Longmire, with the other two hostesses being Mrs. Hattie Carter and Mrs. Elnora Rutledge. There were 15 ladies present, including two visitors, Mrs. Frieda Thuman and Miss Dorothy Schomberg who is the County Home Demonstration Agent.

The club's president, Mrs. Elnora Rutledge, called the meeting to order. She stressed the point that things are new in the spring and that it is a time of renewal of ourselves. She said that we need to clean up our surroundings, plus ourselves, and to begin plans for the year ahead in our lives. She also reminded the members that it is time to begin planting gardens, both flowers and vegetables.

Secretary Mrs. Cason gave a reading on how to be attractive and happy as follows:

One is to cultivate these qualities: sense of humor, happy disposition, friendliness, interest in others, appreciate good things in life and live and let live.

Cards of thanks were read, and cards were signed to mail to sick friends, Mrs. Eunice Phillips gave a report on the yard at the Community Center which is kept up by the club.

Miss Schomberg, Home Demonstration Agent, showed interesting slides of hanging baskets for both yards and porches and told the group how to make the baskets and how to care for the plants shown. The following plants are fine for baskets: Boston Fern, Fluffy Ruffle, Mint, Lantana, Begonias, Petunias, Sultana and Achimines. These plants require large amounts of water and shade; the basket may be dipped in a tub of water instead of pouring the water on the plant.

The hostesses served delicious refreshments of pie, coffee and soft drinks. After the program members spent time visiting and discussing tours. The absent members were really missed and members hope they will be well and fine soon.

The next meeting of the Garden Club will be a tour. Plans will be announced later.

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Men's Coveralls Reg. $16.25 Sale $12.95
WESTERN WORK SHIRTS
Men's Lt. Blue or Dk. Blue Reg. $11.00 $9.00
(Men's) Western Dress Shirts Reg. $10.50 $7.95
Boys' Maverick Jeans size 6-18 Reg. $8.50 SALE $7.00
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HOSPITAL NEWS NOTES

Patients this week (Mar. 17):
Henry Swartzman, city
Yhoenecio Cantu, city
Albert Lednicky, city
Mrs. Bertha Smith, city
Phillip Wyer, city
Mrs. Louise Foerster, city
Leroy Spears, city
Robert Contreras, Sr., city
Dick Wood, city
Raymond Jochetz, city
August Schmidt, city
Horace McGrew, Garwood
Mrs. Evelyn Drlik, Garwood
Mrs. Jolly Manis, Garwood
Mrs. Frances Scott, Columbus
Henry Wright, Columbus
Dismissals:
E. H. Shirley, city
Pedro Perez, city
Miss Hattie Weishuhn, city
Mrs. Zora Shirley, city
Mrs. Elizabeth Reynolds and baby boy, city
Joe Gause, city
Mrs. Martha Lujan, city
Mrs. Josie Bankston, city
W. C. Alley, city
Mrs. Elsie Wiese, city
Mrs. Marie Kopecky, city
Miss Rosie Stovall, city
Mrs. Joyce Johnson, city
Mrs. Erma Lee Stevens, city
Johnny Hernandez, city
Paul Whitfield, city
Kevin Whitfield, city
Mrs. Teresa Jacobs, Hallettsville
Mrs. Anna Kallina, Garwood
Clifford Kidd, Monahans
Mrs. Milton Chavis, Alleyton
John Parks, Columbus
Mrs. Sue Garrett, Katy
Miller Kincheloe, Sheridan
John Wayne Smith, Altair
Charles Axel, Altair
Russell Richter, Lissie
Timothy Richter, Lissie

3 From EL On SH State Dean's List

Three Eagle Lake students are among 2,353 Sam Houston State University students named to the fall semester Dean's list.

They are: Candyce Farris Dixon, 4.0; Melody Leigh Farris, 3.5; and Carol Ann Wick, 3.5.

To make the Dean's list a student must earn a grade point average of 3.0 or better, with a 4.0 representing a perfect record, and must complete at least 12 hours of semester work.

Alpha Delta Phi Has Model Meeting

Alpha Delta Phi held its regular meeting on Tuesday, March 11 in the home of Jane Clipson with Rose Ann Carpenter co-hostess.

President Martha Locklier opened the Model Meeting with special guests Charlotte Reed, Dianne Blake, La Verne Adkins, Beverly Taylor and Gail Guthman present. President Martha had each officer report on her special duties for the guests.

Mary Lou and Sandy presented a program on "Oratory". They had prepared a tape recording of Martin Luther King, Jr.'s last speech in Memphis in 1968. After hearing the tape and explaining parts of it, they analyzed the emotion and feelings that his speeches projected. It was a very informative and interesting program.

The meeting was turned over to Jo Ann Gertson, the vice president. Seated before her "Crystal Ball", in full gypsy attire, she called upon her spirits of Ways and Means, Service, Membership, Social and etc. to explain what Alpha Delta Phi contributes and does for its community.

A delightful social hour followed with visiting with the guests.

The next meeting will be held at the Circle K Ranch on Tuesday, March 25th.

Garwood Honor Bandsmen

Above are the members of the Garwood School Band who earned positions in the Colorado County Honor Band for 1975. They are, left to right, bottom row: Arnold Rodriguez, cornet; Teresa Reese, percussion; Thereza Becak, clarinet; second row: Sherry Krenek, alto saxophone; Debbie Thompson, tenor saxophone; Marie Carter, bass clarinet; Ishmael Perez, cornet; third row, Frankie Becak, baritone horn; Madison Smith, trombone; and Angel Farrow, baritone saxophone.

CPL Taking Applications For Scholarships

Application deadlines for Central Power and Light Company scholarships in home economics, electrical engineering and business administration are rapidly approaching.

The scholarships are available to high school seniors and junior college graduates. The applicant must be a resident of the general area served by CPL and must have resided in this area for the last three years.

CPL serves a 44-county area from the Rio Grande Valley up to the Bay City-Palacios area in southeast Texas and across to the Del Rio area in southwest Texas. CPL does not serve the San Antonio area.

A total of 12 scholarships will be awarded for the fall term of 1975 in six South Texas colleges and universities. The colleges included in the program are Texas A&I University at Kingsville, Pan American at Edinburg, Del Mar Technical Institute in Corpus Christi, Victoria Junior College, Bee County Junior College in Beeville and Laredo Junior College.

Currently over 40 South Texas youngsters are attending college on CPL scholarships. Since the program's start in 1952, over 170 have benefitted.

Application blanks for the scholarships may be secured from high school principals and counselors and by writing the registrar's office of the chosen college.

Mrs. Florence May Carter Buried Here

Graveside services were held at the Lakeside Cemetery in Eagle Lake at 2 p.m. Sunday, March 16th for Mrs. Florence May Carter, 66, of Houston, a former resident of this community.

The Rev. Melburn Sibley, pastor of First Baptist Church, officiated at the graveside services. Patil. Foley & Co. of Houston was in charge of arrangements.

Mrs. Carter is survived by her mother, Mrs. L. D. Roberts of Houston; a son, David O'Neil Carter; a brother, T. C. Roberts of Houston; and four grandchildren.

Friends here join in extending sympathy to the family in their loss.

On April 5, 1975
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POISONS

Acids	18
Barbiturate of Mercury	6
Camphor	1
Carbon Monoxide	16
Chlorine Bleach	8
Disinfectant	
[illegible]	8
[illegible]	12
Food Poisoning	11
Furniture Polish	17
Gasoline, Kerosene	17
Household Ammonia	10
Insect & Rat Poisons	
[illegible]	2
[illegible]	14
[illegible]	5
[illegible]	11
[illegible]	15
Iodine Tincture	4
Lye	10
Mushrooms	11
Oil of Wintergreen	9
Pine Oil	17
Rubbing Alcohol	9
Turpentine	17
Washing Soda	10

OVERDOSES

Alcohol	9
Barbiturates	3
Belladonna	15
Bromides	11
Caffeine	13
Decongestant & Cold Compounds	9
[illegible]	9
Iron Compounds	7
Morphine, Opium	13
Paregoric	13
"Pep" Medicines	2
Sleeping Medicines	3

DO THIS FIRST:

- Send for a doctor — immediately.
- Keep the patient warm.
- Determine if patient has taken
  (1) A POISON: something not to be taken internally . . . or
  (2) AN OVERDOSE: a food or drug taken in excessive quantity.
- While waiting for physician, give appropriate counterdose below.
- But do not force any liquids on the patient — if he is unconscious.

To Find the Correct Counterdose
- In one of the lists printed at left, find substance causing the trouble.
- Next to that substance is a number. This refers to counterdose bearing same number in the section below.

Keep all poisons and medicines out of reach of children

1. • Induce vomiting (with an emetic such as
   • Finger in throat, or
   • Tablespoon of mustard in half glass of water, or
   • Soap & warm water, or
   • Salt & warm water.
2. • Give a mixture of 2 tablespoons of activated charcoal, 1 tablespoon of milk of magnesia & tablespoons strong tea.
   • Induce vomiting. (See #1)
3. • Induce vomiting. (See #1)
   • Give 2 tablespoons epsom salt in 2 glasses of water.
   • Then give large quantities of hot coffee or strong tea (instant or regular).
4. • Give 2 ozs. thick starch paste. Mix cornstarch (or flour) with water.
   • Then give 2 ozs. salt in quart of warm water. Drink until vomit is clear.
   • Finally, give glass of milk.
5. • 4 oz. hydrogen peroxide.
   • 1 tablespoon sodium bicarb in quart of warm water.
   • Induce vomiting. (See #1)
   • Then give 4 oz. mineral oil. Positively do NOT take vegetable or animal oil.
6. • For each tablet swallowed give white of 2 raw eggs in glass of milk.
   • Give mixture as in #2.
   • 1 ounce of epsom salts in a pint of water.
7. • Induce vomiting. (See #1)
   • Give 2 teaspoons of sodium bicarb in a glass of warm water.
8. • Give 1 teaspoon of aromatic spirit of ammonia in glass of water.
   • Hot coffee or strong tea plus white of raw egg.
9. • Give mixture as in #2.
   • Tablespoon sodium bicarb in quart of warm water.
   • Give strong tea or coffee.
10. • Give 2 tablespoons vinegar in 2 glasses of water.
    • Give white of 2 raw eggs or 2 ounces of olive oil.
    • Do NOT induce vomiting!
11. • Induce vomiting. (See #1)
    • Give 2 tablespoons epsom salt in 2 glasses of water.
    • Then give large quantities of hot coffee or strong tea.
12. • Induce vomiting. (See #1)
    • Then give 2 ounces of castor oil.
    • Next give glass of milk or white of 2 raw eggs.
13. • Give mixture as in #2.
    • 2 tablespoons epsom salt in 2 glasses of water.
    • Keep patient awake.
14. • Give 2 tablespoons of milk of magnesia.
    • Give glass of milk.
    • Induce vomiting. (See #1)
15. • Give mixture as in #2.
    • Give artificial respiration.
    • Keep patient quiet.
16. • Carry victim into fresh air.
    • Make patient lie down.
    • Hot coffee or strong tea.
17. • Give 4 oz. mineral oil.
    • Then give hot coffee or strong tea.
18. • Give 1 oz. milk of magnesia in large quantity of water.
    • Do NOT induce vomiting!

EMERGENCY TELEPHONE NUMBERS
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NEAREST POISON CONTROL CENTER ____
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FIRE DEPARTMENT ____
POLICE ____
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The World DOESN'T End Here

By Dr. John J. McKetta

(Reprinted from the publication WATER FOR TEXAS, Vol. 5, Nos. 1 and 2, January and February, 1975 - a publication of the Texas Water Development Board, Austin, Texas).

A distinguished engineer-educator provides new and hopeful insights into eight popular but misunderstood ecological issues. Dr. McKetta is E. P. Schoch Professor, Department of Chemical Engineering, University of Texas, Austin.

It bothers me that there are so many purveyors of gloom who talk about the hopelessness of our future. For example, on March 27, 1973, I heard Garner Ted Armstrong say over the television:

"There is no way you can have any optimism for the continuation of life on this earth because of the pollution, over-population, and results of technological advances."

There is an entire spectrum, from zero to infinity, of views and actions on almost any problem. Let's take the pollution problem, for example. We all know there are still some companies and cities that put toxic gases and liquids into our air and streams. It's almost unbelievable that many of our large cities still discharge raw sewage, or only partially treated sewage into our streams. Both industry and the cities should be stopped immediately from these flagrant violations. On the other extreme are those people who wish to have distilled water in the streams and zero particulates in the atmosphere. These are impossible concentrations and could not be attained even if there were no people on this earth. The answer, obviously, is somewhere between these two extremes.

I am a family man. My lovely wife and I have four wonderful children. It is my wish that they have clean air to breathe and clean water to drink. Not distilled water nor absolutely pure air, but I do want them to have odorless, non-toxic, clean air, and clean water. I believe we still have a great deal of environmental work to do in the USA. I believe, however, that extremism is bad on either end.

We're all deeply concerned about reports of the destruction of our environment as a result of technological recklessness, over-population, and the lack of consideration to the preservation of nature. As Chairman of the National Air Quality Commission, I have to read of technical literature in this area, and I've turned up a lot of evidence that I'd like to share with you.

[illegible] Dixon and [illegible] have no future, blame our expected demise on the [illegible] nature for his proper ends and that we have overdone it.

Others recommend that we go back centuries and embrace the practices of druidism. Still other people express a disdain for science and a mistrust of technology in general.

They say our automobiles are no longer a wondrous method of freeing man from his immobility, but have become terrible polluters and will ultimately be piles of junk to desecrate the landscape. Electricity, the most convenient form of energy ever available, has come into disrepute. The industry that produces electricity is now looked upon as an evil organization of the establishment whose objective is to create new radiation hazards with nuclear power plants, to cut down trees, to stick poles into the ground and to pump smoke into the air to poison all of us.

It's a gloomy picture indeed. But I've found that this outlook is not justified, and this is what I want to talk about. I hope you'll understand that I'm speaking to you as one who understands elementary science and engineering and not as an emotional supporter of any particular "side" of ecology. Some of the facts I will mention may be surprising, but my conclusions are supported by evidence that is difficult to interpret in any other way.

1. WHY IS THE OXYGEN DISAPPEARING

My first surprise concerns the air we breathe. You have been reading that we are seriously depleting the oxygen in the atmosphere and replacing it with toxic substances such as carbon monoxide.

Throughout my formal education I was taught that oxygen in the atmosphere is supplied by green plants using the process of photosynthesis. It is known that plants take in carbon dioxide and, through activation by sunlight, combine CO_2 with water to make starches and cellulose, and give off oxygen. In this way the whole chain of plant and animal life is sustained by energy from the sun. When the vegetable or animal materials thus produced are eaten, burned, or allowed to decay they combine with oxygen and return to the carbon dioxide and water from whence they came. We all know this. Then, what is the surprise?

Surprise number one is that most of the oxygen in the atmosphere *doesn't* come from photosynthesis. The evidence is now overwhelming that photosynthesis is inadequate to have produced the amount of oxygen present in the atmosphere. The amount of oxygen produced by photosynthesis is just exactly enough to convert the plant tissue back to the carbon dioxide and water from which it came. In other words, the net gain in oxygen due to photosynthesis is extremely small. The oxygen in the atmosphere had to come from another source. The most likely possibility involves the photodissociation of water vapor in the upper atmosphere by high energy rays from the sun and by cosmic rays. This process alone could have produced (over the history of the earth 4.5 X 10^9 years) about seven times the present mass of oxygen in the atmosphere.

The significance of this information is that the supply of oxygen in the atmosphere is virtually unlimited. It is not threatened by man's activities in any significant way. If all the organic material on earth were oxidized, it would reduce the atmospheric concentration of oxygen by less than 1%. We can forget the depletion of oxygen in the atmosphere and get on with the solution of more serious problems.

2. CARBON MONOXIDE WILL KILL US ALL

As you know, the most toxic component of automobile exhaust is carbon monoxide. Each year man adds 270 million tons of carbon monoxide to the atmosphere, most of which comes from automobiles. Scientists are concerned about the accumulation of this toxic material because they know it has a life in dry air of about three years. For the past several years, monitoring stations on land and sea have been measuring the carbon monoxide content of the atmosphere. Since the ratio of automobiles in the northern and southern hemisphere is 9:1 respectively, it was expected that the northern hemisphere would have a much higher concentration of atmospheric carbon monoxide. The true measurements show, however, that there is no difference in CO amounts between the hemispheres and that the overall concentration in the air is *not* increasing at all. In fact they've found higher concentrations of CO over the Atlantic and Pacific oceans than over land.

Early in 1971 scientists at the Stanford Research Institute in Palo Alto disclosed results of experiments in smog chambers containing foil. They reported that carbon monoxide rapidly disappeared from the chamber. Next, they sterilized the soil and found that now the carbon monoxide did not disappear. They identified the organisms responsible for CO removal to be fungi of the aspergillus (bread mold and penicillin types). These organisms, on a world-wide basis, are using all of the 270 million tons of the CO made by man for their own metabolism, thus enriching the soils of the forest and the fields.

This does not say carbon monoxide is any less toxic. It does say that, in spite of man's activities, carbon monoxide will never build up in the atmosphere to a dangerous level except on a localized basis. To put things in perspective, let me point out that the average concentration of CO in Austin, Texas is about 1.5 parts/million. In downtown Houston, in heavy traffic, it sometimes builds up to 15 or 20 ppm. In Los Angeles it gets to be as high as 35 ppm. In parking garages and tunnels it is sometimes 50 ppm.

Here lies surprise number two for you—do you know that the CO content of cigarette smoke is 42,000 ppm? The CO concentration in practically any smoke-filled room grossly exceeds the safety standards we allow in our laboratories. I don't mean to imply that 35 to 50 ppm CO should be ignored. I do mean that there are so many of us who subject ourselves to CO concentrations voluntarily (and involuntarily) that are greater than those of our worst-polluted cities, including Holland Tunnel in New York, without any catastrophic effects. It is not at all unusual for CO concentrations to reach 100-200 ppm range in poorly ventilated, smoke-filled rooms. Incidentally, if a heavy smoker spends several hours without smoking in a highly polluted city air containing 35 ppm of CO concentration, the concentration of CO in his blood will actually decrease. In the [illegible] exposure of our natural [illegible] are totally safe for human beings.

Incidentally, 53% of the CO comes from trees and greeneries. (3.5 billion tons/yr.) Only 7% comes from man (270 million tons/yr.).

3. OXIDES OF NITROGEN WILL CHOKE US

I am impressed by research efforts on the part of petroleum, automotive, and chemical companies to remove oxides of nitrogen from the products of combustion in the tail-pipe gas of our automobiles. I've read about the brilliant work of Dr. Haagen-Smit showing that the oxides of nitrogen play a critical role in the chain reaction of photochemical smog formation in Los Angeles. Oxides of nitrogen are definitely problems in places where temperature inversions trap the air.

But we've all known for many years that nature, in addition to man, also produced oxides of nitrogen. The number three surprise is that most of the oxides of nitrogen *come from nature.* If we consider only nitric oxide and nitrogen dioxide the best estimates are 97% is natural and only 3% are man made. If we also consider nitrous oxide and amines, it turns out that 99+% is natural and less than 1% is man made.

Nature makes oxides of nitrogen in several ways. Biological action and organic decomposition produce most of the N_2O and NO. In fact, the great saltpeter deposits of South America are a result of frequent thunderstorms over the Andes. Oxides of nitrogen in rainwater react with minerals of the soil and end up as saltpeter when the water evaporates.

The great abundance of marine life between Antartica and the tip of South America is also attributed to the nitrate run-off from the Andes, which initiates plankton growth, thus setting off a whole chain of fishes which eat each other ending on the top with the blue whale.

The significance of this is that even if we are 100% successful in our removal of the oxides of nitrogen from combustion gases, we will still have more than 99% left in the atmosphere which is produced by nature. Sometimes I think nature laughs at us.

4. THE DEATH OF LAKE ERIE

We've all read for some time that Lake Erie is dead. It is true that the beaches are no longer swimmable in the Cleveland area and the oxygen content at the bottom of the lake is decreasing. This is called eutrophication. The blame has been placed on phosphates as the cause of this situation. Housewives were urged to curb the use of phosphate detergents—in fact, for several years phosphate detergents were taken off the market. There's been a change in law since scientific evidence proved that the phosphate detergents were not the culprits and never should have been removed from the market in the first place.

Study shows that the cause of the eutrophication of Lake Erie has not been properly defined. This evidence suggests that if we totally stop using phosphate detergents it would have no effect whatever on the eutrophication of Lake Erie. Many experiments have now been carried out that bring surprise number four—that it is the organic carbon content from sewage that is using up the oxygen in the lake and not the phosphates in the detergents.

The reason that the Cleveland area beaches are not swimmable is that the coliform bacterial count is too high, not that there is too much detergent in the water.

Enlarged and improved sewage treatment facilities by Detroit, Toledo, Sandusky, and Cleveland will be required to correct this situation. Our garbage disposal units do far more to pollute Lake Erie than do the phosphate detergents. If we put in the proper sewage treatment facilities, the lake will sparkle blue again in a few years.

Incidentally, we've all heard that Lake Superior is larger and cleaner than Lake Erie. It's strange then to learn that in 1972 and 1973 more tons of commercial fish were taken from Lake Erie than were taken from Lake Superior.

Governor Gilligan of Ohio declared war on pollution in general and on thermal pollution in particular. Investigation of the thermal pollution problem reveals that, beyond any question of doubt, the sun is by far the greatest thermal polluter of Lake Erie. Governor Gilligan announced that he would "back legislation making it unlawful to increase the temperature of the water by more than one degree over the natural temperature." I don't know what he will do with the sun breaking the law since, as we all know, the natural temperature of Lake Erie is changed by the sun more than 40°F every year between winter (33°F) and summer (75°F+). The natural life in the lake accomodates this change as it has for many thousands of years. According to my calculations, if we could store up all of the electricity produced in Ohio in a year and use it exclusively for heating Lake Erie all at one time, it would heat the entire lake less than 3/10ths of 1°F.

In terms of localized heating we must remember that there are hundreds of power plants already pouring warm water into streams and lakes. Forty of these are nuclear power plants. Evaluation of the effect of these from an ecological point of view is that "thermal pollution" is a less descriptive and less appropriate term than is "thermal enrichment." There are no species disappearing. No ecological catastrophes or problems have appeared. Some of the best fishing locations in the country are near the warm water outlets of these power plants.

5. DDT IS THE WORST THING THAT EVER HAPPENDED TO US

DDT and other chlorinated compounds are supposedly endangering mankind and eliminating some bird species by thinning of their egg shells. There is a big question mark as to whether or not this is true. From the readings that I have done, some experiments were conducted in such a manner that positive conclusions could not be drawn from them. Even if their results are true, it's possible that the desirable properties of DDT so greatly outnumber the undesirable ones that it might prove to be a serious mistake to ban entirely this remarkable chemical.

Dr. Norman E. Borlaug, the Nobel Peace prize winner, is opposed to the banning of DDT. Obviously he is a competent scientist. He won the Nobel prize because he was able to develop a new strain of wheat that can double the food production per acre anywhere in the world that it is grown. [illegible] this man's work. I have dedicated myself to finding better methods of feeding the world's starving population. Without DDT and other important agricultural chemicals, our goals are simply unattainable."

As I read into this matter I find that DDT has had a miraculous effect in arresting insect-borne diseases and increasing grain production from fields once ravaged by insects. According to the World Health Organization, malaria fatalities alone dropped from 4 million a year in the 1930's to less than 1 million per year in 1968. Other insect borne diseases, such as encephalitis, yellow fever, and typhus fever showed similar declines. Surprise number five is that it has been estimated that 100 million human beings who would have died of these afflictions are alive today because of DDT. Incidentally recent tests indicate that the thinning of bird egg shells may have been caused by mercury compounds rather than DDT!

6. WE'RE KILLING OFF TOO MANY SPECIES

Many people feel that mankind is responsible for the disappearance of many animal species. It is possible that in some instances man *may* hasten the disappearance of certain species, but the abundance of evidence indicates that he has very little to do with it. About 50 species are expected to disapear during this century, but 50 species became extinct last century and 50 species the century before that and so on . . . Dr. T. H. Jukes of the University of California points out that about 100 million species of plant and animal life have become extinct since life began on this planet, about 3 billion years ago. Animals come and animals disappear—this is the essence of evolution, as Darwin pointed out. Mankind is a relatively recent visitor here. Surprise number six is that he had nothing to do with the disappearance of millions of species that preceded him.

In fact, one of man's failures is that he has *not* been successful in eliminating a single insect species—in spite of his recent all-out war on certain undesirable ones.

7. MAN IS THE REAL POLLUTER

Here's the *seventh surprise!* The late Dr. William Pecora calculated that all of man's air pollution during his thousands of years of life on earth does not equal the amount of particulate and noxious gases from just three volcanoes, (Krakatoa, Java—1883; Mt. Katmai, Alaska—1912; Hekla, Iceland—1947).

Dr. Pecora also pointed out that nature's pure water is not so pure after all. Here are a few of his examples:

1. The natural springs feeding the Arkansas and Red Rivers carry approximately 17 tons of salt *per minute.*
2. The Lemonade Springs in New Mexico carry approximately 900 pounds H_2SO_4 per million pounds of water. (This is more than ten times the acid concentration in coal mine discharges.)
3. The Mississippi River carries over 2 million tons of natural sediment into the Gulf of Mexico *each day.*

LET'S GO BACK TO THE GOOD OLD DAYS

Don't believe the trash about the happy lives people lived before industrialization came along. One of my 13 year old students once asked me "What have all these 2000 years of development of industry and civilization done for us? Wouldn't we have been happier in 100 B.C.?" I said "No, chances are 97 out of 100 that, if you were not a poor slave, you'd be a poor farmer, living at bare subsistence level."

When people think of ancient times, they think of themselves as members of aristocracy. They are sitting in the Agora in Athens listening to Socrates, in the Senate House in Rome debating with Cicero, riding on horses as knights of Charlemagne time. In their dreams they are never slaves, never peasants, but that's what most of them would be.

My wife once said to me "If we lived a hundred years ago we'd have no trouble getting servants." I said, "If we'd lived 150 years ago we'd be the servants."

Let's consider what life was really like in America just 150 years ago. For one thing, we didn't have to worry about pollution very long—because life was very brief. Life expectancy of males was about 38 years of age—gruelling 38 years. The work week was 72 hours. The women's lot was even worse. They worked 98 hours a week scrubbing floors, making clothes by hand, bringing in fire wood, cooking in heavy iron pots, fighting off insects without pesticides. Most of the clothes were rags by present-day standards. There were no fresh vegetables in winter. Vitamin deficiency diseases were prevalent. Homes were cold in winter and sweltering in the summer.

Epidemics were expected yearly and chances were high that they would carry off some members of the immediate family. If you think the water pollution is bad now, it was *deadly* then. In 1793 one person in every five in the city of Philadelphia died in a single epidemic of typhoid as a result of polluted water. Many people of that time never heard a symphony orchestra, or traveled more than 20 miles from their birth place during their entire life time. Many informed people do not want to return to the "paradise" of 150 years ago. Perhaps the simple life was not so simple.

WE ARE PRACTICING WITCHCRAFT

In every age people have practiced witchcraft in one form or another. I used to think that the people of New England were irrational in accusing certain women of being witches without evidence to prove it. Suppose someone accused you of being a witch. How could you prove you were not? It is impossible to prove unless you can give evidence. It is precisely this same accusation of witchcraft that is being used today to deter the construction of nuclear power plants. The opponents are saying that these plants are witches and it is up to the builders and owners to prove that they are not. The scientific evidence is that the nuclear power plants, constructed to date, are the cleanest and least polluting devices for generating electricity so far developed by man. We need electricity to maintain the standard of living we have reached but to the extreme environmentalists, we are witches who should be burned at stake.

We hear the same accusations about lead compounds [illegible] Agency has no evidence that there has ever been a single case of death, or even illness from lead [illegible] burning of gasoline, but it still insists that we must remove the lead from the gasoline. To the EPA we are witches—they have no evidence—no proof—yet we are pronounced guilty! And yet you know that gasoline needs some additives to prevent engine knocks. If we don't use tetraethyl-lead we'll have to use aromatic compounds. Some aromatics are carcinogenic—we know that! The use of unleaded gasoline also consumes up to 20% more crude oil. (Incidentally, the real reason for removing lead from gasoline was because it was suspected that lead poisoned the catalyst in the emission control tunit. Now we have good evidence that it isn't lead but ethylene bromide which is the poisoner.)

From what we read and hear it would seem that we are on the edge of impending doom. A scientific evaluation of the evidence does not support this conclusion. Of course, we have some undesirable problems attributed to technological activities. The solution of these problems will require a technical understanding of their nature not through emotion. They cannot be solved unless properly identified, which will require more technically trained people—*not fewer.*

I agree, as Thomas Jefferson did, that if the public is properly informed, the people will make wise decisions. The public has not been getting all of the facts on matters relating to ecology. This is the reason why I am speaking out on this subject today—as a technical man and as a citizen. Some of what you have heard today is contrary to your beliefs, but I'm willing to support my conclusions on evidence good enough for me to stake my reputation on it.

8. THE LAST SURPRISE: WE'RE GOING TO LIVE

In summary let me state that we are not on the brink of an ecological disaster. Our O_2 is not disappearing. There will be no build-up of poisonous CO. The waters can be made pure again by adequate sewage treatment plants. The disappearance of species is natural. A large percentage of pollution is natural pollution and would be here whether or not man was on this earth. We cannot solve our real problems unless we attack them on the basis of what we know rather than what we don't know. Let us use our knowledge and *not our fears* to solve the real problems of our environment.

There is a moral to the effect that those who misrepresent facts are not believed when they speak the truth. We've heard many cries of "wolf" with respect to our oxygen supply, the build-up of CO, the disappearance of species, DDT, the oxides of nitrogen, phosphates in the lakes, thermal pollution, radiation effects from nuclear power plants, lead in gasoline, mercury in fish, filth in our streams, to name a few. For the most part, these cries of wolf have not been malicious, but have been based largely on fear, ignorance, or misinformation. The people have listened to these cries and have come running to the rescue, but when they arrived they didn't find the wolves.

Let's not cry wolf until we have done enough homework to know what a wolf looks like. Otherwise we may undermine our credability and not be believed by the people when we warn them of the wolves that really do exist.

Advt. Paid
By concerned citizen
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