

9:30 A.M.-Tuesday April 6, 1971

Joint Session - Lead Industries Association
- Zinc Institute

Grand Ballroom - Drake Hotel

Chairman: W. J. Veenis.

For those of you who were not with us yesterday for the opening sessions of the LIA annual meeting, it is my pleasure to welcome the zinc contingent to the 53rd annual meeting of the Zinc Institute.

(Extension of Chairman's Remarks)

Announcement of Election of LIA Officers

LIA's Secretary, Dave Borcina, has reported to me that the Board of Directors of LIA at its meeting yesterday afternoon elected the following individuals to serve as officers of the Association for the forthcoming year:

President and Chairman of the Board - J. G. ^{Gardner} McCullough

Vice Presidents - R. A. Gardiner, Jr.

Simon D. Strauss

F. G. Woodruff

Staff officers re-elected:

Executive Vice President - J. L. Kimberley

Secretary-Treasurer - David M. Borcina

Asst. Treasurer - Mrs. Dorothy L. Moore

PNYC00008189

A.

This morning's program attempts to ~~cover~~^{bridge} several aspects of the Environment question:

----- Trends in Life expectancy -- and Principle Causes of Death.

----- Environmental Lead & Public Health.

----- Costs of Meeting Anti-Pollution Goals.

No, you are not suffering from hangover generated hallucinations -- nor a new form of morning sickness. This is an attempt to face facts.

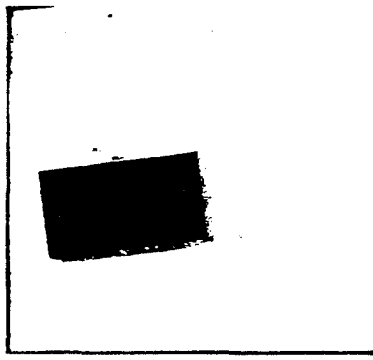
If ever, we must all gain a rational approach to our problems, both industry and national. The emotional and political ecology issue must give way to facts revealed in many diverse scientific investigations. The tendency of the American Faddist to focus upon one or two "catch phrase" problems while overlooking larger, more serious problems is all too evident. "Tunnel Vision" views of the environment have already created barriers of hysteria to real progress.

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The Lead and Zinc Industries face great problems in pollution control -- both in markets for its products -- and in production processes. Yesterday's talk by Mr. Kimberly touched on a major one -- "lead in gasoline."

I can't help but relay a story from our Great Falls Metallurgist Jim Owings: "The big laugh making the rounds of the LIA meeting goes like this -- Knock, Knock." That's all!

Our three speakers on Environmental Effects and Expectations bring widely differing backgrounds to offer both technical findings and, perhaps, different philosophies. Please consider their talks in the light of what "Fact Must Say"



Argentina
Australia
Belgium
Canada
France
Germany
Holland
Japan
Mexico
Spain
Sweden
United Kingdom

PNYC00008192

This might also be a good time to announce that next year's meetings of LIA and ZI will be held ~~on~~ ^{thru} April 5~~x~~7 in Montreal, Canada at the Queen Elizabeth Hotel.

A. Before presenting the first of this morning's formal papers, I wish to point out that time has been allotted for a question and answer period following the presentation of each of the papers.

~~At~~ Our first paper this morning "Long-Term Trends in Life Expectancy and Principal Causes of Death" will be given by Mr. Geoffrey N. Calvert.

Mr. Calvert is a Director of Alexander & Alexander, Inc. with full responsibility for the operations of that firm in the fields of Personnel Coverages and Consulting Actuarial services. He is also President of Alexander & Alexander Services Ltd. (Canada), President of Alexander International, and a Director of Benefacts Inc. He is the author of many technical papers, booklets, and articles dealing with various aspects of retirement and similar plans, the trends in this field, and has also had much experience in economic research, population forecasting, and problems connected with resource development. Mr. Geoffrey N. Calvert

(Copy of paper attached)

Thank you, Mr. Calvert. Are there any questions.

9:45
10:15

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10:20

"Environmental Lead and Public Health" is the ^{subject} ~~title~~ of our next paper, a subject of vital interest to the lead industry. There is perhaps no other metal that has been so intensely studied by governmental agencies and the industry itself as to its toxic effects on man. Despite the tremendous amount of scientific data available, controversy as to what does or does not constitute a hazard continues. Our speaker is well qualified to shed additional light on the subject. Dr. Vaun A. Newill received his M.D. from the University of Pittsburgh in 1947 and an ^{Master of Science in} ~~S.M.~~ Hyg. degree in Epidemiology in 1960 from Harvard. His past work experience has included a short period in general practice in Harrisburg, Pa., two tours of duty with the U.S. Navy and 12 years on the faculty in the Departments of Preventive Medicine and School of Medicine, Western Reserve University. ^{Dr. Newill is a member of many medical and scientific associations and has published more than 25 papers in his field.} He went with the Govern-

ment in 1965 and in 1968 assumed his present duties as ^{Director of} ~~Admin.~~ the Division of Health Effects Research, National Air Pollution Control Admin. ~~Dr. Newill~~ May I present Dr. Vaun A. Newill:

(Paper not available)

10:25

10:55

Thank you, Dr. Newill. Are there any questions.

11:00 → B

Our next paper "The Economic Impact of Proposed Anti-Pollution Goals on the Copper Smelting Industry" is being presented by Mr. David Swan in his capacity as Chairman, Environmental Matters Committee, American Mining Congress. However, serving in that

PNYC00008194

B

Lead and Zinc, like copper, come from Sulfide ores -- probably over 90% of all primary lead & zinc, in fact. The elimination of SO_2 discharge into the atmosphere is a serious problem. One authority estimates that Zinc Smelters contributed close to 17%, lead, over 7% -- while copper smelters expelled over 75% of all smelter SO_2 .

By way of perspective, that 100% of smelter SO_2 is but a small fraction of industrial air borne pollutants -- and it has been estimated that all industry contributes only 17% of all air-borne pollutants in the United States.

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An important extra-curricular activity, since
capacity is ~~simply a labor of love~~ his major interest is serving Kennecott Copper Corp. as Vice President-Technology. He assumed his present post in that company in 1966 having come from

Union Carbide Corp. where he served in various capacities. Mr. Swan is currently V.P. of the Metallurgical Society of AIME and Chairman of the

11:05 ~~Mr. David Swan~~
Technical Development Committee of the Int'l Copper Research Assoc. -- Mr. David Swan
(Charts but not text attached)

Thank you Dave for a real picture of what we in the

lead and zinc industries can expect in the way of increased production costs. *or, as the Music Man would have it -- "And that means Money."* Are there any questions?

So much for our problems; let's turn to a brighter subject from an Eternal Optimist: Our next speaker, Mr. Ross Stubbs, Director General,

Lead and Zinc Development Associations in London, is well known to most of you and needs no further introduction.

He will be discussing in his paper "ZALIS-Year II" the second full year of activities of this important adjunct of the lead and zinc industries of the World. As many of you know ZALIS' primary function is providing aid and assistance to developing countries in efforts to increase their internal markets for lead and zinc.

11:50

Mr. Ross Stubbs:

(Copy of paper attached)

12:05

Thank you, Ross. Are there any questions.

PNYC00008196

Report of ZI Nominating Committee for Directors12:10

The next order of business is the Report of the Nominating Committee for Directors of the Zinc Institute and I call on its Chairman, Mr. ^{R. Gordon Driver} ~~Herb~~ for his Committee's report.

Herb:

(Committee report attached)

Thank you ^{Gordon} ~~Herb~~.

That concludes the joint session of LIA and ZI. The opening session of the Zinc Institute's meeting will convene in the same room at 1:30 P.M. this afternoon.

This being election day in Chicago, it is my sad duty to report that it is against the law to serve alcoholic beverages in the public rooms of the Hotel. So, there will be no refreshment period prior to luncheon which will be served promptly at 12:30 in the Gold Coast Room.

12:20

PNYC00008197

LIA - General Theme -- Environmental Effects
and expectations
Veeins to handle announcement of officers

① Actuaal

② Control Probabilities - aimed toward plan
Dr. Vaughn Newell → operations (as well as ultimate)
~~Dr. Newell~~ (Durham, N.C.) Rockledge or Kimberly
Environmental

③ The cost of anti-pollution goals.

Call Dave Swan at Kennebec after

Borena talks to him 3/9/71

Econ Impact of Proposed Pollution Controls on Copper
Representing AMC.

The penalty of payment of these costs in U.S.
vs. elsewhere. Tax benefits? Quotas

→ Dave Swan - 687-5800

When will AMC publish paper in E&MJ

8:30 ± 9 a.m.

PNYC00008198

David Swan joined Kennecott Copper Corporation in 1966 as Vice President-Technology, having come from Union Carbide Corporation where he served in various capacities, and, finally, Vice President of Technology of the Metals Division and General Manager of the Defense and Space Systems Department of that corporation.

Mr. Swan attended Rensselaer Polytechnic Institute and received the degree of B. Met. E. in 1940. From 1942 to 1946 he served in the United States Naval Reserve, attaining the rank of lieutenant commander.

Mr. Swan served on the Board of Directors of The Metallurgical Society, as Chairman of the Institute of Metals Division, and as Chairman of the Niagara Frontier Section of AIME. He is currently President of the Smelter Control Research Association, Vice President of The Metallurgical Society of AIME, Chairman of the Environmental Matters Committee of the American Mining Congress, and Chairman of the Technical Development Committee of the International Copper Research Association. He is Fellow of both The Metallurgical Society (of AIME) and American Society for Metals.

In 1957 Mr. Swan was a member of the exchange delegation of the United States metallurgists visiting the Soviet Union under the sponsorship of the U. S. State Department. From 1958 to 1962 he was a member of the Materials Advisory Board of the National Academy of Sciences - National Research Council, and in 1959 served concurrently on the NAS-NRC special committee reporting to the President's Science Advisory Committee on the "Scope and Conduct of Materials Research". He continues to serve on special committees of the Materials Advisory Board.

PNYC00008199

In 1959 Mr. Swan presented the Orton Lecture before the American Ceramic Society, and in 1965 was the recipient of the Albert Fox Demers Medal presented by Rensselaer Polytechnic Institute. He is the author of several patents in welding and metallurgy. He is a member of the Board of Directors of Quebec Iron and Titanium Corporation, Quebec Metal Powders, Ltd., The American Institute of Mining, Metallurgical and Petroleum Engineers, and of William F. Clapp Laboratories of Battelle Memorial Institute.

PNYC00008200

3/29/71

21 Feb - 30 to 40 Min
App. in Lab 45:-
7.30 p.m.
Science Master in Hygiene

BIOGRAPHIC STATEMENT

Vaun A. Newill, M. D. 719-~~666-4091~~
Chapel Hill -688-8146

Dr. Vaun A. Newill was born in 1923 in western Pennsylvania. He graduated from Avalon High School in Pittsburgh in 1940; from Juniata College, Huntingdon, Pennsylvania with a B.S. degree in chemistry in 1943; from University of Pittsburgh with an M.D. degree in 1947; and from Harvard University with a S.M. Hyg. degree in Epidemiology in 1960. He interned at St. Francis Hospital, Pittsburgh, Pennsylvania and completed a residency in Internal Medicine at the Veterans Administration Hospitals in Buffalo, New York and in Cleveland, Ohio.

Dr. Newill was elected to Delta Omega while at the Harvard University School of Public Health and has been a member of Sigma Xi for many years. He has membership in a number of societies such as the Air Pollution Control Association, American Association for the Advancement of Science, American Federation for Chemical Research, American Public Health Association and the American Thoracic Society. He has published more than twenty-five scientific papers covering a wide range of subjects but relating primarily to diabetes mellitus, information retrieval, and environmental factors affecting the health of people.

Dr. Newill's past work experience has included a short period in general practice in Harrisburg, Pennsylvania, two tours of duty with U.S. Navy, twelve years on the faculty in the Departments of Preventive Medicine and Medicine, School of Medicine, Western Reserve University and on the staff of University Hospital, Benjamin Rose Hospital and Veterans Administration Hospital, Cleveland, Ohio. He has been a consultant to the Summer Epidemiology Training Program of the Department of Health, State of California, a Visiting Lecturer in Epidemiology at the Harvard University School of Public Health and now has an appointment as an Adjunct Associate Professor in Epidemiology at the University of North Carolina School of Public Health.

Dr. Newill is, at present, Director of the Division of Health Effects Research, National Air Pollution Control Administration. He joined the Division of Air Pollution in 1965 and spent the first two and one-half years on assignment in Japan reviewing the Tokyo-Yokohama Asthma problem among American military personnel assigned there, becoming acquainted with air pollution health effects research underway in Japan, and in helping establish cooperative air pollution health effects studies between investigators in the two countries. On return to United States in June 1967, he became Chief of the Ecological Research Section of the Health Effects Research Program. In August 1968 he assumed his present duties.

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BIOGRAPHICAL NOTES

GEOFFREY N. CALVERT

M.A., F.C.I.A., F.I.A., F.C.A.P., A.S.A., F.S.S., F.R.E.S., F.R.S.A.

GEOFFREY N. CALVERT is a Director of Alexander & Alexander, Inc. with full responsibility for the operations of that firm in the fields of Personnel Coverages and Consulting Actuarial services. He is also President of Alexander & Alexander Services Ltd. (Canada), President of Alexander International, and a Director of Benefacts Inc.

In addition to his professional actuarial qualifications, he is a graduate in economics and political science with practical research experience. He is a Fellow of the Institute of Actuaries (London), an Associate of the Society of Actuaries covering the U. S. and Canada, a Fellow of the Canadian Institute of Actuaries, a Fellow of the Conference of Actuaries in Public Practice, a Member of the Academy of Actuaries, a Fellow of the Royal Statistical Society, a Fellow of the Royal Economic Society, a Fellow of the Royal Society of Arts, a member of the American Pension Conference, the Canadian Pension Conference, and of various other societies active in the field of employee benefits, economics and actuarial science.

Prior to and during World War II, he gathered experience in many fields of actuarial work including Social Security cost studies, and also in economic research work, war mobilization, and demographic research. In 1946, as Economist in the International Bank for Reconstruction and Development in Washington, he established its Statistical Division.

In 1949, he established the Consulting Actuarial Division of Alexander & Alexander, Inc. and subsequently established Alexander & Alexander Services Ltd. in Canada. He also played a key role in the establishment of Benefacts Inc. which specializes in the preparation of computerized statements of fringe benefits to individual employees.

For many years Mr. Calvert has been working with many types of organizations in the United States and Canada in the establishment and revision of their employee benefit plans, and has handled many problems arising from mergers, bargaining, co-ordination, and readjustments of plans which have become obsolete.

He has also made extensive studies of the investment and economic aspects of pension funds, the measurement of fund performance, and long-term cost projections.

Mr. Calvert is the author of many technical papers, booklets, and articles dealing with various aspects of retirement and similar plans, the trends in this field, and has also had much experience in economic research, population forecasting, and problems connected with resource development.

Alexander & Alexander has now become one of the strongest employee benefit consulting organizations in the world, distinguished for its record of developing new practices and methods, and dealing with problems of unusual difficulty in this field.

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