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Resume of Herman Medwin, 1973

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RESUME OF HERMAN MEDWIN

Herman Medwin was born in 1920 at Springfield, Massachusetts. He received his B. S. degree in Physics in 1941 from Worcester Polytechnic Institute, his M. S. degree in 1948, and his Ph. D. in Physics in 1954 from the University of California at Los Angeles.

Dr. Medwin was a Teaching Assistant in Physics at UCLA from 1946 through 1948. From 1948 through 1953 he served both as an Instructor in Physics at Los Angeles City College and as a Research Assistant in the Physics Department at UCLA. Following the award of the doctorate, Dr. Medwin was appointed Research Associate in Physics at UCLA and shortly thereafter joined the staff of Bolt, Beranek, and Newman, Consultants in Acoustics, Cambridge, Massachusetts.



In 1955 he was appointed Associate Professor of Physics at the U. S. Naval Postgraduate School in Monterey, California. Dr. Medwin was promoted to Professor of Physics in 1960. In 1961 he was granted an eighteen-months leave of absence to become a Liaison Scientist for the Office of Naval Research, London Branch. His duties with ONR included the editing of the monthly journal, "European Scientific Notes."

In addition to his academic responsibilities, Dr. Medwin has served as a consultant in acoustics to various public and private organizations, including the Mine Advisory Committee of the National Academy of Sciences, National Research Council; the Human Resources Research Organization of George Washington University; Hudson Laboratories of Columbia University and Stanford Research Institute.

The principal fields of interest of Dr. Medwin have been underwater acoustics, noise control and the non-linear effects of high intensity sounds. He has written approximately 20 technical reports and scientific articles on these subjects.

Dr. Medwin is a Fellow of the Acoustical Society of America, a member of the American Association of University Professors and Sigma Xi.

PUBLICATIONS OF H. MEDWIN

OPEN LITERATURE

Books; published papers, notes, letters.

1. Surface and Volume Sources of Vorticity in Acoustic Fields P
J. Acoust. Soc. Am., 25, 538-540 (1953)
2. An Acoustic Streaming Experiment in Gases P
J. Acoust. Soc. Am., 26, 332-341 (1954)
3. Acoustics at King's College, Newcastle-upon-Tyne N
ONR, London, European Scientific Notes (1961)
4. Acoustics Group on Great Britain N
ONR, London, European Scientific Notes (1961)
5. Advanced Study Institute on Underwater Acoustics N
ONR, London, European Scientific Notes (1961)
6. Attenuation of Repeated Shock Waves in Air IP
with H. Carpenter and R. Baumann
Proc. of the 3rd International Cong. on Acoustics
Elsevier, 1961. p.. 312-316
7. The Use of Sound to Inhibit Turbulence N
ONR, London, European Scientific Notes (1961)
8. Acoustics at the University of Liverpool N
ONR, London, European Scientific Notes (1962)
9. Addendum Report on Colleges of Advanced Technology N
ONR, London, European Scientific Notes,
16-10 (1962) p. 200
10. The CATs at the Door N
ONR, London, European Scientific Notes (1962)
11. The Fourth International Congress on Acoustics N
ONR, London, European Scientific Notes,
16-10 (1962) p. 189-190
12. Hi-Fi Auditorium N
ONR, London, European Scientific Notes (1962)

Publications of H. Medwin (cont)

13. High Polymer Ultrasonic Spectroscopy
ONR, London, European Scientific Notes (1962) N
14. An Inexpensive Absolute Calibration of Microphones
ONR, London, European Scientific Notes (1962) N
15. Lighthill Lecture on Aerodynamic Noise
ONR, London, European Scientific Notes (1962) N
16. Organization and Publications of French Acousticians
ONR, London, European Scientific Notes (1962) N
17. Physical Acoustics in Italy
ONR, London, European Scientific Notes (1962) N
18. Status of Science in Western Germany -- Acoustics
ONR, London, European Scientific Notes (1962) N
19. Sum and Difference Frequencies by Optical Diffraction
ONR, London, European Scientific Notes (1962) N
20. Temperature Measurement in a High Temperature Reactor
ONR, London, European Scientific Notes (1962) N
21. Two New Journals of Acoustics
ONR, London, European Scientific Notes (1962) N
22. Ultrasonic Study on Viscoelasticity
ONR, London, European Scientific Notes (1962) N
23. Ultrasonics at the Leningrad Electrotechnical Institute
ONR, London, European Scientific Notes (1962) N
24. University Science in Britain -- The Report of the
Advisory Council
ONR, London, European Scientific Notes (1962) N
25. The Attenuation of Guided Repeated Shock Waves
J. Acoust. Soc. Am., 36, 870 (1964) P
26. High Frequency Acoustical Reverberation from a Rough
Sea Surface
J. Acoust. Soc. Am., 36, 2131-2134 (1964) P

Publications of H. Medwin (cont)

27. Design and Use of an Acoustic Spectrometer for the Detection of Particulate Matter and Bubbles in the Sea. Proc. 5th International Congress on Acoustics, Liege, Belgium (1965) IP
28. Five Experiments
In Manual of Suggested Experiments for Laboratory Courses in Acoustics and Vibration, Acoustical Society of America, 1967 IP
29. Specular Scattering of Underwater Sound from a Wind-driven Surface
J. Acoust. Soc. Am., 41, 1485-1495 (1967) P
30. In Situ Acoustic Measurements of Bubble Populations in Coastal Ocean Waters
J. Geophys. Res., 75, 599-611 (1970) P
31. Dependence of Spatial and Temporal Correlation of Forward-Scattered Underwater Sound on the Surface Statistics. I Theory
with C. S. Clay
J. Acoust. Soc. Am., 47, 1412-1418 (1970) P
32. Dependence of Spatial and Temporal Correlation of Forward-Scattered Underwater Sound on the Surface Statistics. II Experiment
with C. S. Clay
J. Acoust. Soc. Am., 47, 1419-1429 (1970) P
33. Traveling Correlation Function of the Heights of Wind-Blown Water Waves
with C. S. Clay, J. M. Berkson and D. L. Jaggard
J. Geophys. Res., 75, 4519-4524 (1970) P
34. Scattering from the Sea Surface (Chapter 3)
In Underwater Acoustics, edited by R. W. B. Stephens
Wiley-Interscience, 1970 IP
35. Helmholtz-Kirchhoff Theory for Sound Transmission through a Statistically Rough Plane Interface Between Dissimilar Fluids
with J. D. Hagy
J. Acoust. Soc. Am. 51, 1083-1090 (1973) P
36. Spectral Characteristics of Sound Transmission through the Rough Sea Surface
with R. A. Helbig and J. D. Hagy
J. Acoust. Soc. Am. 54, 99-109 (1973) P
37. Specularly Scattered Sound and the Probability Density Function of a Rough Surface
with C. S. Clay and W. M. Wright
J. Acoust. Soc. Am. 53, 1677-1682 (1973) P

Publications of H. Medwin (cont)

38. Measurements of Surface Wave Decay Due to Underwater Turbulence P
with T. Green and J. E. Paquin
Nature, Physical Sci., 237, 115-117 (1972)