

Proceedings of the Iowa Academy of Science

Volume 89 | Number

Article 5

1982

In Memoriam: Delma E. Harding

Eugenia Farrar
Iowa State University

Let us know how access to this document benefits you

Copyright ©1982 Iowa Academy of Science, Inc.

Follow this and additional works at: <https://scholarworks.uni.edu/pias>

Recommended Citation

Farrar, Eugenia (1982) "In Memoriam: Delma E. Harding," *Proceedings of the Iowa Academy of Science*, 89(3), 107-107.

Available at: <https://scholarworks.uni.edu/pias/vol89/iss3/5>

This General Interest Article is brought to you for free and open access by the Iowa Academy of Science at UNI ScholarWorks. It has been accepted for inclusion in Proceedings of the Iowa Academy of Science by an authorized editor of UNI ScholarWorks. For more information, please contact scholarworks@uni.edu.

dreamt of in your philosophy. . . '22

REFERENCES

1. Based on an invited paper delivered at the Physics Section of the 93rd Session of the Iowa Academy of Science, 25 April 1981.
2. G. SANTAYANA, *Three Philosophical Poets: Lucretius, Dante and Goethe*, p. 23, Harvard University Press (1922).
3. From a saying attributed to the Buddha: "Now this, O monks, is the noble truth of the way that leads to the cessation of pain; this is the noble *Eightfold Way*: namely, right views, right intention, right speech, right action, right living, right effort, right mindfulness, right concentration."
4. For a very complete collection of fundamental papers on SU(3), with commentary, see *The Eightfold Way*, by M. Gell-Mann and Y. Ne'eman, Benjamin, 1964.
5. M. GELL-MANN, Phys. Lett. 8, 214 (1964).
6. G. ZWEIG, CERN preprint 8409/Th. 412 (unpublished).
7. J.J. AUBERT *et al.*, Phys. Rev. Lett. 33, 1404 (1974).
8. J.E. AUGUSTIN *et al.*, Phys. Rev. Lett. 33, 1406 (1974).
9. G. S. ABRAMS *et al.*, Phys. Rev. Lett. 33, 1453 (1974).
10. S. L. GLASHOW, J. ILIOPOULOS, L. MAIANI, Phys. Rev. D2, 1285 (1970).
11. G. GOLDBERGER *et al.*, Phys. Rev. Lett. 37, 255 (1976).
12. E. G. CAZZOLI *et al.*, Phys. Rev. Lett. 34, 1125 (1975); B. Knapp *et al.*, Phys. Rev. Lett. 37, 882 (1976).
13. There has been one very recent report of the detection of fractionally charged particles using a technique of magnetic levitation. See G.S. LaRue, J.D. Phillips, W.M. Fairbank, Phys. Rev. Lett. 46, 967 (1981).
14. O.W. GREENBERG, Phys. Rev. Lett. 13, 598 (1964).
15. M.L. PERL *et al.*, Phys. Rev. Lett. 35, 1489 (1975).
16. V.A. LYUBIMOV *et al.*, Phys. Lett. 94B, 266 (1980).
17. S.W. HERB *et al.*, Phys. Rev. Lett. 39, 252 (1977).
18. W.R. INNES *et al.*, Phys. Rev. Lett. 39, 1240 (1977).
19. D. ANDREWS *et al.*, Phys. Rev. Lett. 45, 219 (1980); G. Finocchiaro *et al.*, Phys. Rev. Lett. 45, 222 (1980).
20. G. STEIGMAN, D.N. SCHRAMM, J. GUNN, Phys. Lett. 66B, 202 (1977).
21. G. GAMOW, *One, Two, Three . . . , Infinity*, Viking-Press (New York) 1947, p. 162.
22. W. SHAKESPEARE, *Hamlet*, Act. 1, Scene V.

In Memoriam

Delma E. Harding, emeritus professor of Zoology and Secondary Education at Iowa State University, died February 1, 1982 at age 76. Born March 17, 1905 in Iowa City, she earned her B.A. (1929) and M.S. (1938) from the State University of Iowa, then taught in Iowa high schools at Bayard, Sharon Center, Lisbon, and Newton, where she headed the Science Department in 1939. Her teaching, characterized by its innovative "hands on" approach, gained her a reputation for excellence.

She also worked with the Public Health Service on the anopheles mosquito, and taught at the University of Tennessee and Illinois Normal College. She received her Ph.D from Iowa State University in Zoology in 1953, and taught there until retiring in 1975.

Dr. Harding conducted parasitology research, taught introductory human anatomy and physiology, and co-authored a popular lab manual for basic physiology. She is perhaps best known for the Science Teacher Training Program, in which she taught and supervised student teachers. She co-authored the useful resource book "Creative Biology Teaching" and contributed to the *Iowa Science Teachers' Journal* and other journals of science education. Delma organized the biology portion of the annual ISU Science Teachers' Short Course, directed N.S.F. Summer Institutes, and served as visiting professor in high schools.

Dr. Harding was active in the Iowa Academy of Science and received its 1978 Iowa Science Teacher Award. She received ISU's Outstanding Teacher Award (1957) and was honored by Mortar Board (1957), Alpha Lambda Delta (1957), Tomahawk (1962), and Lampos (1962).

Delma added immeasurably to the quality of student life and education. Her positive, sincere outlook encouraged students to grow, and her open door policy at work and at home provided them with a place to drop in for friendly conversation. She sponsored a number of foreign students' educational experiences in this country and provided a home for students from many lands. Her contagious optimism cheered and inspired students and faculty alike.

Dr. Harding's dedication to secondary science teaching is memorialized by an ISU alumni achievement fund. Contributions may be sent to: Delma Harding Educational Fund, Alumni Achievement Foundation, Memorial Union, Iowa State University, Ames, Iowa 50011.

Eugenia Farrar
Department of Zoology
Iowa State University