

# James R. Van Hise

*Professor of Chemistry*

Ph.D. 1963

Nuclear/Physical Chemistry

University of Illinois (Urbana-Champaign)

E-mail: [jvanhise@puc.edu](mailto:jvanhise@puc.edu)

Office: 566 Sunset Dr. Angwin, CA 94508

Phone: 707-965-2175

## BIOGRAPHICAL DATA

Table of Contents:

- [Education](#)
- [Positions Held](#)
- [Listed In](#)
- [Fields of Interest and Research Competence](#)
- [Publications](#)

[\[Return Home\]](#)

### EDUCATION

|      |   |
|------|---|
| 1959 | B.S. in Chemistry:<br>Minors in Mathematics and Physics<br>Walla Walla College<br>College Place, WA                 |
| 1963 | Ph. D. in Nuclear Chemistry<br>Minors in Mathematics and Physics<br>University of Illinois<br>Urbana /Champaign, IL |

[\[Back to Top\]](#) | [\[Home\]](#)

### POSITIONS HELD

|  |               |
|--|---------------|
| Professor, Department of Chemistry,<br>Pacific Union College, Angwin, CA   | 1972-present  |
| Consultant (Radiological Physics)<br>in Nuclear Medicine,<br>Radiology and Industry  | 1975-present  |
| Consultant (Nuclear Chemistry)<br>to Lawrence Livermore Laboratory,<br>Livermore, CA   | 1974-1985     |
| Visiting Lecturer,<br>Department of Chemistry,<br>University of Illinois,<br>Urbana, IL  | 1974 (summer) |
| Associate Professor to full Professor and<br>Chairman, Department of Physics,<br>Tri-State College (now Tri-State University),<br>Angola, IN | 1969-1972     |
| Visiting Scientist,<br>Lawrence Radiation Laboratory<br>(University of California),<br>Livermore, CA   | 1969 (summer) |
| Visiting Lecturer,<br>Physics Department,<br>Michigan State University<br>Lansing, MI  | 1968 (summer) |
| Visiting Lecturer,<br>University of Illinois,<br>Urbana, IL  | 1967 (summer) |
| Visiting Scientist,<br>Argonne National Laboratory,<br>Argonne, IL   | 1966 (summer) |
| Assistant Professor to Associate Professor,<br>Departments of Chemistry and Physics,<br>Andrews University,<br>Berrien Springs, MI           | 1965-1969     |

|  |           |
|--|-----------|
| Research Associate,<br>Oak Ridge National Laboratory,<br>Oak Ridge, TN             | 1963-1965 |
| University of Illinois Fellow  | 1962-1963 |
| U.S. Rubber Foundation Fellow<br>and Teaching Assistant,<br>University of Illinois | 1961-1962 |
| Research Assistant,<br>University of Illinois                                      | 1960-1961 |

[\[Back to Top\]](#) | [\[Home\]](#)

### LISTED IN

American Men and Women of Science  
I am also listed in the following equally pointless biographies:  
Who's Who in the West (1975)  
Outstanding Educators of America (1972, 1973 and 1974)  
Dictionary of International Biography (1968)  
Who's Who in American Education (1968)  
Leaders in American Science (1967)

[\[Back to Top\]](#) | [\[Home\]](#)

### FIELDS OF INTEREST AND RESEARCH COMPETENCE

Nuclear and Physical Chemistry

[\[Back to Top\]](#) | [\[Home\]](#)

### PUBLICATIONS

James R. Van Hise, "Properties of the  $^{32}\text{S}(\gamma, np)^{30}\text{P}$  Cross Section from 50 to 300 MeV,"  
Ph. D. Thesis, 1963.

J. R. Van Hise, R. A. Meyer, and J. P. Hummel, "Properties of the Cross Sections for the  $^{32}\text{S}(\gamma, np)^{30}\text{P}$ ,  $^{40}\text{Ca}(\gamma, np)^{38}\text{K}$ , and  $^{66}\text{Zn}(\gamma, np)^{64}\text{Cu}$ , Reactions from 50 to 300 MeV," *Physical Review* 139, No. 3B, 1965.

B. H. Ketelle, A. R. Brosi, and J. R. Van Hise, "Discovery of  $^{136}\text{Pr}$ ," *Bulletin of the American Physical Society* 10, No. 1, abstract, 1965.

J. R. Van Hise, G. Chilosi, and N. J. Stone, "An enhanced E3 Transition in  $^{137}\text{La}$ ," *Bulletin of the American Physical Society* 11, No. 1, abstract, 1966.

G. Chilosi, J. R. Van Hise, and C. W. Tang, "Observation and Measurement of Three Excited States in  $^{117}\text{In}$ ," *Bulletin of the American Physical Society* 11, No. 1, abstract, 1966.

J. R. Van Hise and D. Engelkemier, "The decay of  $^{243}\text{Am}$ ," *Bulletin of the American Physical Society* 12, No. 3, abstract, 1967.

N. A. Morcos, R. O. Barnes, J. DeMelo, B. E. Lee, and J. R. Van Hise, "Levels in  $^{76}\text{As}$  from the  $^{75}\text{As}(n, \gamma)$  Reaction," *Bulletin of the American Physical Society* 12, No. 4, 1967.

J. R. Van Hise, B. H. Ketelle, and A. R. Brosi, "Decay of  $^{137}\text{Pr}$ ," *Physical Review* 153, No. 4, 1967.

J. R. Van Hise, G. Chilosi, and N. J. Stone, "An enhanced E3 Transition in  $^{137}\text{La}$ ," *Physical Review* 161, No. 4, 1967.

J. C. Kelley and J. R. Van Hise, "Search for the O+ Member of the Two-Phonon Triplet in  $^{110}\text{Cd}$ ," *Bulletin of the American Physical Society* 14, No. 2, Abstract, 1969.

G. Chilosi, J. R. Van Hise, and C. W. Tang, "Observation and Measurement of Three Excited States in  $^{117}\text{In}$ ," *Physical Review* 168, No. 4, 1968.

J. R. Van Hise and D. Engelkemier, "The Decay of  $^{243}\text{Am}$ ," *Physical Review* 171, No. 4, 1968.

N. A. Morcos, R. O. Barnes, J. DeMelo, B. E. Lee, and J. R. Van Hise, "Levels in  $^{76}\text{As}(n, \gamma)$  Reaction," *Physical Review* 166, No. 4, 1968.

J. R. Van Hise and D. L. Show, "Measurement of the  $\alpha_K$  of the 160-keV Transition in  $^{117}\text{Sn}$ ," *Bulletin of the American Physical Society* 14, No. 2, abstract, 1969.

D. L. Show and J. R. Van Hise, "Measurements of the  $\alpha_K$  of the 160-keV Transition in  $^{117}\text{Sn}$ ," *Nuclear Physics* A135, 1969.

J. R. Van Hise and D. C. Camp, "Zero-phonon Gamma-ray Transition in Ni-60," *Physical Review Letters* 23, No. 21, 1969.

R. A. Meyer, D. C. Camp, and J. R. Van Hise, "Decay of  $^{134}\text{Cs}$ ," *Bulletin of the American Physical Society* 15, No. 4, abstract, 1970.

J. R. Van Hise, M. C. Kelley, R. G. Lanier, and N. R. Johnson, "Search for the 0+ Member of the Two-Phonon Triplet in  $^{110}\text{Cd}$ ," *Physical Review* 1, No. 5, 1970.

W. B. Walters, J. R. Van Hise, W. L. Switzer, and J. P. Hummel, "Photo-nuclear Reactions Above the Giant Resonance: Ratios of  $(\gamma, 2n)$  to  $(\gamma, pn)$  Yields in  $^{50}\text{Cr}$ ,  $^{89}\text{Y}$ ,  $^{92}\text{Mo}$ ," *Nuclear Physics* A157, 1970.

J. R. Van Hise, "Modern Science: An Enlarged Vista," chapter in Creation: Nature's Designs and Designer, editor R. H. Utt, Pacific Press Publishing Association, Mt. View, CA, 1971.

B. H. Ketelle, A. R. Brosi, and J. R. Van Hise, "Decay of  $^{136}\text{Pr}$  and the Level Structure of  $^{136}\text{Ce}$ ," *Physical Review* 4, No. 4, 1971.

J. R. Van Hise and C. Paperiello, "Decay of  $^{74}\text{As}$  to Levels in  $^{74}\text{Ge}$ ," *Nuclear Physics* A188, 1972.

J. R. Van Hise and A. E. Rainis, "Decay of  $^{71}\text{As}$ ," *Physical Review* 6, No. 1, 1972.

J. R. Van Hise and D. N. McDonald, "Electron Momentum Distribution in  $\text{NH}_3$ ," *The Journal of Chemical Physics* 61, No. 6, 1974.

J. R. Van Hise, "Light Decay Curve of the Supernova in IC4182," *The Astrophysical Journal* (part 1), September 15, 1974.

J. R. Van Hise, and D. C. Camp, and R. A. Meyer, "Decay of the  $^{134}\text{Cs}$  Isomers and the Levels of  $^{134}\text{Xe}$ ,  $^{134}\text{Cs}$  and  $^{134}\text{Ba}$ ," *Z. Physik* A274, 1975.

J. R. Van Hise and R. A. Meyer, "Levels of  $^{110}\text{Cd}$  Populated in the Decay of  $^{110}\text{In}^{m\&g}$ ," *Bulletin of the American Physical Society* 21, No. 4, abstract, 1976.

D. C. Camp and J. R. Van Hise, "Weak Gamma Rays Observed in the  $^{60}\text{Co}$  Decay," *Physical Review* C14, No. 1, 1976.

J. R. Van Hise and D. C. Camp, "Search for High Energy Alpha Emitters in Monazite Minerals," *Physics and Chemistry of Minerals* 7, 131, 1981.

J. R. Van Hise, D. E. Martz, R. A. Jackson, D. Y. Kuniyama, and E. Bolton, " $^{218}\text{Po}$  Half-life," *Physical Review* 25, No. 5, 2802-2804, 1982.

J. R. Van Hise and S. M. Schuchman, "Lead-Impregnated Acrylic Shielding for a Diagnostic X-ray Unit," *Journal of the American Veterinary Medical Association* 184, No. 1, 1984.

J. R. Van Hise, "Particle tunnelling in the 7-azaindole dimer", *Molecular Physics* 99, No. 16, 1347, 2001

J. R. Van Hise, "Particle tunneling in the 7-Azaindole Dimer Part 2", *Chinese Journal of Chemistry* 23, 218-220, 2005

K. A. Davis and J. R. Van Hise, "Comment on "Predicting boron diffusion in wood from surface sorption"", *Forest Products Journal*, Vol. 56, No.6, 2006