

James R. Van Hise

Professor Emeritus

Ph.D. 1963
Nuclear Chemistry
University of Illinois (Urbana-Champaign)

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BIOGRAPHICAL DATA

EDUCATION

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

POSITIONS HELD

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| Professor, Department of Chemistry, Pacific Union College, Angwin, CA | 1972-2002 |
| Consultant (Radiation Physics) to Industry and in Medical Physics | 1975-2002 |
| Consultant (Nuclear Chemistry) to Lawrence Livermore Laboratory, Livermore, CA | 1974-1985 |

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| Visiting Lecturer, Department of Chemistry, University of Illinois, Urbana, IL | 1974 (summer) |
| Associate Professor to full Professor and Chairman, Department of Physics, Tri-State College (now Tri-State University), Angola, IN | 1969-1972 |
| Visiting Scientist, Lawrence Radiation Laboratory (University of California), Livermore, CA | 1969 (summer) |
| Visiting Lecturer, Physics Department, Michigan State University Lansing, MI | 1968 (summer) |
| Visiting Lecturer, University of Illinois, Urbana, IL | 1967 (summer) |
| Visiting Scientist, Argonne National Laboratory, Argonne, IL | 1966 (summer) |
| Assistant Professor to Associate Professor, Departments of Chemistry and Physics, Andrews University, Berrien Springs, MI | 1965-1969 |
| Research Associate, Oak Ridge National Laboratory, Oak Ridge, TN | 1963-1965 |
| University of Illinois Fellow | 1962-1963 |
| U.S. Rubber Foundation Fellow and Teaching Assistant, University of Illinois | 1961-1962 |
| Research Assistant, University of Illinois | 1960-1961 |

LISTED IN

American Men and Women of Science

I am listed also 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)

FIELDS OF INTEREST AND RESEARCH COMPETENCE

Nuclear and Physical Chemistry. Also, since 2012, Radio Astronomy.

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}Pr ," *Bulletin of the American Physical Society* 10, No. 1, abstract, 1965.

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N. A. Morcos, R. O. Barnes, J. DeMelo, B. E. Lee, and J. R. Van Hise, "Levels in ^{76}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}Pr ," Physical Review 153, No. 4, 1967.

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J. C. Kelley and J. R. Van Hise, "Search for the O+ Member of the Two-Phonon Triplet in ^{110}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}In ," Physical Review 168, No. 4, 1968.

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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 α_K of the 160-keV Transition in ^{117}Sn ," Bulletin of the American Physical Society 14, No. 2, abstract, 1969.

D. L. Show and J. R. Van Hise, "Measurements of the α_K of the 160-keV Transition in ^{117}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}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 O+ Member of the Two-Phonon Triplet in ^{110}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 (γ , 2n) to (γ , pn) Yields in ^{50}Cr , ^{89}Y , ^{92}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}Pr and the Level Structure of ^{136}Ce ," Physical Review 4, No. 4, 1971.
- J. R. Van Hise and C. Paperiello, "Decay of ^{74}As to Levels in ^{74}Ge ," Nuclear Physics A188, 1972.
- J. R. Van Hise and A. E. Rainis, "Decay of ^{71}As ," Physical Review 6, No. 1, 1972.
- J. R. Van Hise and D. N. McDonald, "Electron Momentum Distribution in 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}Cs Isomers and the Levels of ^{134}Xe , ^{134}Cs and ^{134}Ba ," Z. Physic A274, 1975.
- J. R. Van Hise and R. A. Meyer, "Levels of ^{110}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}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. Kunihara, and E. Bolton, " ^{218}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 tunneling 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

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