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Harrison and Levente Szasz have introduced a number of further approaches to molecular and atomic problems. Jens Dahl, Alfred Switendick, Jules Moskowitz, Donald Merrifield and Russell Pitzer have done further work on molecules, and Fred Quelle on solids. Slater rarely included his name on the cards of SSMTG members working with him. The main works he co-authored were dealing with applications of group theory in band structure calculations[58] and (2) equivalent characteristics of linear atomic orbital combination (LCAO), narrow binding, and bloc wave approximations, to interpolate results for solid energy levels, obtained by more accurate methods,[59] People A partial list of members of the SSMTG (Ph.D. , postdoctoral members, research staff and faculty, in some cases subsequently labelled as †, ‡, §, ¶), together with references reporting their SSMTG and subsequent activities, follows. Leland C. Allen ††, molecular calculations ab initio, electroegativity, Professor of Emeritus Chemistry, Princeton University (2011). [60] Michael P Barnett §, molecular integrals, software, phototypesetting, cognition,[61] later in industry, Columbia U. and CUNY. Louis Burnelle†, molecular calculations, later professor of chemistry, New York University. Earl Callen † Fernando J. Corbat †, began molecular calculations in the SSMTG; later a pioneer of time sharing and recipient of the Turing Award. George Coulouris §, worked with MPB, later professor of computer science at Queen Mary College, University of London. Imre Cszizmadia †, molecular calculations (LIH), later professor of chemistry, U. Toronto, ab initio calculations, drug design. Jens Dahl has †, molecular calculations, later professor of chemistry, Technical University of Denmark, wrote text of quantum chemistry. [64] Donald E. Ellis §†, molecular calculations, later professor of Physics and Astronomy at Northwestern University, real materials. Arthur Freeman ††, orthogonalized calculations of plane waves, later professor of Physics and Astronomy at Northwestern University[66] Robert P. Futrelle §, programming methods,[61] later professor of computer science and information sciences at Northeastern University. Leon Gunther †† lattice vibrations in alkali alogenads, later professor of physics at Tufts University, focus on condensed matter theory in many areas, including superconductivity and seminal documents on nanoscopic physics and quantum tunneling of magnetization. Malcolm Harrison has †, (died 2007) co-developer of POLYATOM, later professor of computer science, New York University. [69] Frank Herman, structure calculations band, joined RCA then IBM Research Laboratories, wrote and 20010 major investigations. [70] David Howarth †, solid state, later professor of computer science, Imperial College, University of London. [71] John Illiffe §, computer scientist. San-ichiro San-ichiro †, later professor, Ochimizu University Arnold Karo †, electronic structure of small molecules, later at the Lawrence Livermore Laboratory. C.W. Kern †, molecular calculations, later professor of chemistry, Ohio State U., published widely. Ryouchi Kikuchi † Walter H. Kleiner, solid state physics, continued at Lincoln laboratory. George F. Koster †, became Chairman of MIT's Physics Degree Committee and wrote two books on solid state physics. Leonard F. Mattheiss †, increased piarnese wave calculations, later at Bell Labs, published about 100 articles. [74] Roy McWeeny †, valence theory, later held chairs at several British universities and, since 1982, at the University of Pisa, Italy. Alvin Meckler, first major molecular calculation on Whirlwind (oxygen), later National Security Agency.[75] Donald Merrifield †, molecular calculations (methane), later president of Loyola University in Los Angeles. Jules Moskowitz †, molecular calculations (benzene), later President, Department of Chemistry, NYU, published 100 articles. Robert K. Nesbet †, molecular calculations, later at IBM Almaden Research Laboratories, published over 200 papers. Robert H. Parmenter, later professor of physics, U. Arizona, crystal properties and superconductivity. Russell M. Pitzer †, molecular calculations (ethane), later president of the Department of Chemistry, Ohio State U. over 100 articles. George W. Pratt, †, †† electrical engineering and CMSE, MIT, solid-state electronics. F.W. Those Jr. plane waves increased, later laser optics. Melvin M. Saffren † Robert Schrieffer wrote the Bachelor's thesis on multiples in heavy atoms, later sharing the BCS Nobel Prize in Superconductivity Theory. Edward Schultz Harold Schweinler Hermann Statz †, ferromagnetism, later director of research at Raytheon and 2004 winner IEEE Microwave Pioneer Award.[77] Levente Szasz, atomic structure, became professor of physics at Fordham University, published two books.[78] Brian T. Sutcliffe †, co-developer of POLYMATO, later professor of chemistry, University of York. Richard E. Watson has †, electronic properties of metal atoms, later at Brookhaven, has published over 200 articles. E.B. White † John Wood †, aircraft waves increased using Hartree-Fock methods, at los alamos national laboratory (died 1986), published widely. [80] Notable visitors include Frank Boys, Alex Dalgarno, V. Fano, Anders Framan, Inge Fischer-Hjalmars, Douglas Hartree, Werner Heisenberg, Per-Olov Lwdin, Chaim Pekeris, Ivar Waller and Peter Wohlfarth. Slater's further activities at MIT during this period In 1962 President's Report, Jay Stratton wrote (on p. 17) A faculty committee chaired by Professor John C. Slater assumed primary responsibility for the planning of structures new Materials Center. These include a new Cooperative Computing Laboratory completed this year and equipped with an I.B.M. 709 Computer. [10] The name Center for Materials Science and Engineering Engineering was adopted shortly afterwards. He embodied the ethos of interdepartmental research and teaching that Slater had married throughout his career. The first director was R.A. Smith, former head of the physics division of the Royal Radar Establishment in England. He, Slater and Charles Townes, the Provost, had been in close knowledge since the early years of World War II, working on overlapping topics. [81] The Centre was established, according to Slater's plans. He supported research and teaching in Metallurgy and Materials Science, Electrical Engineering, Physics, Chemistry and Chemical Engineering.[81] and retained MIT as a focal point for work in solid state physics. In 1967, two years after his death, mit's Department of Physics had a very, very small commitment to condensed matter physics because it was so heavily in high-energy physics. [82] In the same year, cmse staff included 55 professors and 179 graduate students. [81] The Center continues to flourish in the 21st century. [4] The Cooperative Computing Laboratory (CCL) was used in its first year by about 400 faculty, students, and staff. These included (1) members of the SSMTG and CCL performing quantum mechanical calculations and nonnumeric applications[61] directed by Slater, Koster, Wood and Barnett. (2) ross, Coons and Mann's computer design team, (3) members of the Nuclear Science Laboratory, (4) Charney and Phillips in theoretical meteorology, and (5) Simpson and Madden in geophysics (since 1964 president's report , p. 336-337). [10] Personal life and death in 1926, he married Helen Frankentfeld. Their three children (Louise Chapin, John Frederick and Clarke Rothwell) followed all academic careers. Slater divorced and in 1954 married Rose Mooney, a physicist and crystallographer, who moved to Florida with him in 1965. [1] [8] At the University of Florida (Gainesville) where the retirement age was 70, Slater was able to enjoy another five years of active research and publication as a research professor in the Quantum Theory Project (QTP). In his 1975 scientific autobiography, he wrote: The Florida Department of Physics was a congenial, with the main emphasis on solid state physics, statistical physics, and related fields. It reminded me of the MIT department in the days when I was head of the department there. It was a far cry from the MIT Department of Physics that I was leaving; since then it had literally been captured by nuclear theorists. Slater published until the end of his life: his last paper, published with John Connolly in 1976, was on a new approach to molecular orbital theory. [83] Professor Slater was also a member of Dr. Ravi Sharma's PhD committee (1966, U of Florida Gainesville) and for many of these committees. He and Rose told Ravi that he had his books and research papers when the truck carrying his belongings overturned as he moved from MIT to Gainesville. Slater died on Sanibel Island, Florida in 1976. As As and Counsellor Slater's concern for the well-being of others is well illustrated by the following dialogue that Richard Feynman recounts. It took place at the end of his college days at MIT, when he wanted to stay for a Ph.D.[85] When I went to Professor Slater and told him of my intentions he said, 'We're not going to have you here.' I said 'What?' Slater said, 'Why do you think you should go to graduate school at MIT? Because it's the best science school in the country... That's why you should go to some other school. You should find out what the rest of the world is like. So I went to Princeton. ... Slater was right. And I often recommend my students the same way. Find out what the rest of the world is like. The variety is worth it. Summary From Philip Morse's merits: He contributed significantly to the beginning of the quantum revolution in physics; was one of the very few American physicists to do so. He has been exceptional in that he has continued to explore atomic, molecular and solid-state physics, while many of his peers have been forced by war, or tempted by novelty, to divert to nuclear mysteries. Last but not least, his lyrics and lectures contributed materially to the rise of the illustrious American generation of physicists of the 1940s and 1950s. [1] The new generation slater launched from the SSMTG and QTP brought knowledge and expertise to the Physics and Chemistry and Computer Science departments, industrial and government laboratories and academy, research and administration. They continued and evolved its methodologies, applying them to a growing variety of topics from atomic energy levels to drug design, and to a number of solids and their properties. Slater learned knowledge and advice, and recognized new trends, provided financial support from his grants, and motivational support by sharing the enthusiasms of the protagonists. In a slight paraphrase of a recent and far-sighted commentary by John Connolly,[86] it can be said that the contributions of John C. Slater and his students to the SSMTG and the Quantum Theory Project laid the foundations for the functional density theory that has become one of the earliest approximations in quantum theory today. Slater's papers were leaked to the American Philosophical Society by his widow Rose Mooney Slater, in 1980 and 1982. In August 2003, Alfred Switendick donated a collection of quarterly reports from the MIT Solid State and Molecular Theory Group (SSMTG), dating from 1951-1965. These are available in several major research libraries. Irving Langmuir Award (1967) American Academy of Achievement Gold Plate Award (1969)[88] National Medal of Science (1970) Books Slater, J. C.; Frank, N. H. (1933). Introduction to theoretical physics. New York: McGraw-Hill. ISBN 978-0-07-058090-9. Slater, J. N. H. Frank (1947). Meccanica. New York: McGraw-Hill. ISBN 978-0-313-24064-5. Slater, J. C.; N. H. Frank (1947). Elektromagnetismo. York: McGraw-Hill. [89] Slater, J. C. (1950). Microwave electronics. New York: Van Nostrand. Slater, J. C. (1955). Modern physics. New York: McGraw-Hill. Slater, J. C. (1939). Introduction to chemical physics. New York: Dover. ISBN 978-0-486-62562-1. Slater, J. C. (1959). 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