

WHEN COMPUTERS WENT TO SEA

*The Digitization
of the United States Navy*

David L. Boslaugh


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When Computers Went To Sea When Computers Went To Sea

SergeyA. Yufin



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When Computers Went to Sea David L. Boslaugh, 2003-04-16 *When Computers Went to Sea* explores the history of the United States Navy's secret development of code breaking computers and their adaptation to solve a critical fleet radar data handling problem in the Navy's first seaborne digital computer system that went to sea in 1962. This is the only book written on the United States Navy's initial application of shipboard digital computers to naval warfare. Considered one of the most successful projects ever undertaken by the US Navy, the Naval Tactical Data System (NTDS) was the subject of numerous studies attempting to pinpoint the reason for the system's inordinate success in the face of seemingly impossible technical challenges and stiff resistance from some in the military. The system's success precipitated a digital revolution in naval warfare systems. Dave Boslaugh details the innovations developed by the NTDS project managers including project management techniques, modular digital hardware for ship systems, top down modular computer programming techniques, innovative computer program documentation, and other novel real time computer system concepts. Automated military systems, users and developers, real time process control systems, designers, automated system project managers, and digital technology history students will find this account of a United States military organization's initial foray into computerization interesting and thought provoking.

The Origins of Aegis Thomas Wildenberg, 2024-05-15 This book provides readers with an in depth understanding of the professional development of two notable and highly accomplished naval officers and their contributions to the development of the Aegis Weapons System. The main argument is that there was no single career path or set of formal qualifications for achieving excellence in the naval profession as characterized by selection for Flag rank. One of the major points is the revelation that a combination of essential personal traits and qualities

and important operational and technical experiences fundamental to the nature of naval warfare are critical to developing highly competent and confident officers. Such officers are needed to lead major acquisition programs capable of delivering innovative weapons systems for a twenty-first century Navy facing new age threats. Computers and Commerce Arthur Lawrence Norberg, 2005. Both ERA and EMCC had their roots in World War II and in postwar years both firms received major funding from the United States government. Norberg analyzes the interaction between the two companies and the government and examines the impact of this institutional context on technological innovation. He looks at the two firms' operations after 1951 as independent subsidiaries of Remington Rand and documents the management problems that began after Remington Rand merged with Sperry Gyroscope to form Sperry Rand in 1955. Jacket **Hard Charger!** James A. Treadway, 2005-07. *Hard Charger* is the story of a Cold War cruiser, the USS Biddle DLG 34, the last Navy cruiser powered by conventional steam, the last of the single-ended guided missile frigates, the last ship of her class but the first on the front lines. Biddle's story is traced from when her combat systems were conceived soon after the end of World War II and then designed and built during the 50s and 60s to her construction, commission, shakedown, combat assignments in Vietnam, her battle at PIRAZ, overhauls, upgrades, training exercises, and cruises to the North Atlantic and Mediterranean, and finally her decommissioning. The story is told by the officers and men who served aboard her, captains and deckhands, technicians and engineering officers, chiefs, petty officers, plankowners, and her decommissioning crew. Though Biddle is gone, her remarkable story remains, as does the freedom she helped protect. Historians, those currently involved with Navy combat systems, and those who served aboard a similar ship or during the Cold War will find Biddle's story interesting and thought-provoking. *Hard Charger* is the only book written about Biddle or any Belknap class cruiser. **Rearming for the Cold War, 1945-1960** Elliott Vanveltner Converse, 2012. Book Description: The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense, author Elliott Converse presents a meticulously researched overview of changes in acquisition policies, organizations, and processes within the United States military establishment during the decade and a half following World War II. Many of the changes that shaped the nature and course of weapons research and development, production, and contracting through the end of the century were instituted between 1945 and 1960; many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years. This study is the first to combine the histories of the Office of the Secretary of Defense (OSD) and the military services into one account. The volume is organized chronologically, with individual chapters addressing the roles of OSD, the Army, Navy, and Air Force in two distinct periods. *History of Acquisition in the Department of Defense, Volume 1* Elliott V. Converse, 2012-06-12. This volume is a history of the acquisition of major weapon systems by the United States armed forces from 1945 to 1960, the decade and a half that spanned the Truman and Eisenhower administrations following World War II. These instruments of warfare—aircraft, armored vehicles, artillery, guided missiles, naval vessels, and supporting

electronic systems when combined with nuclear warheads gave the postwar American military unprecedented deterrent and striking power¹ They were also enormously expensive The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods The first roughly coinciding with President Truman's tenure covers the years from the end of World War II through the end of the Korean War in 1953 The second spans the two terms of the Eisenhower presidency from 1953 through early 1961 The year 1953 marked a natural breakpoint between the two periods The Korean War had ended President Eisenhower and his defense team began implementing the New Look a policy and strategy based on nuclear weapons which they believed would provide security and make it possible to reduce military spending The New Look's stress on nuclear weapons along with the deployment of the first operational guided missiles and the rapid advances subsequently made in nuclear and missile technology profoundly influenced acquisition in the services throughout the 1950s and the remainder of the century As used in this study the term acquisition encompasses the activities by which the United States obtains weapons and other equipment In surveying the history of acquisition between 1945 and 1960 this study discusses or refers in passing to many of the hundreds of weapon system programs initiated by the services in that period but it is not a weapons encyclopedia Instead it investigates a few major programs in depth in the belief that such detailed examination best reveals the evolution of acquisition policies organizations and processes and the various forces influencing weapons programs

Military Communications Christopher H. Sterling, 2007-10-16 An alphabetically organized encyclopedia that provides both a history of military communications and an assessment of current methods and applications *Military Communications From Ancient Times to the 21st Century* is the first comprehensive reference work on the applications of communications technology to military tactics and strategy a field that is just now coming into its own as a focus of historical study Ranging from ancient times to the war in Iraq it offers over 300 alphabetically organized entries covering many methods and modes of transmitting communication through the centuries as well as key personalities organizations strategic applications and more *Military Communications* includes examples from armed forces around the world with a focus on the United States where many of the most dramatic advances in communications technology and techniques were realized A number of entries focus on specific battles where communications superiority helped turn the tide including Tsushima 1905 Tannenberg and the Marne both 1914 Jutland 1916 and Midway 1942 The book also addresses a range of related topics such as codebreaking propaganda and the development of civilian telecommunications

The Government Machine Jon Agar, 2003-09-26 An examination of technology and politics in the evolution of the British government machine In *The Government Machine* Jon Agar traces the mechanization of government work in the United Kingdom from the nineteenth to the early twenty first century He argues that this transformation has been tied to the rise of expert movements groups whose authority has rested on their expertise The deployment of machines was an attempt to gain control over state action a revolutionary move Agar shows how

mechanization followed the popular depiction of government as machine like with British civil servants cast as components of a general purpose government machine indeed he argues that today s general purpose computer is the apotheosis of the civil servant Over the course of two centuries government has become the major repository and user of information the Civil Service itself can be seen as an information processing entity Agar argues that the changing capacities of government have depended on the implementation of new technologies and that the adoption of new technologies has depended on a vision of government and a fundamental model of organization Thus to study the history of technology is to study the state and vice versa Encyclopedia of War and American Society Peter Karsten,2006 Publisher description *Computers and Society*

Lisa C. Kaczmarczyk,2016-04-19 Since computer scientists make decisions every day that have societal context and influence an understanding of society and computing together should be integrated into computer science education Showing students what they can do with their computing degree *Computers and Society* Computing for Good uses concrete examples and case studies to high Advances in Computers ,1975-07-04 *Advances in Computers* *Computers in Geology* John C. Davis,Ute Christina Herzfeld,1993-11-04 This volume vividly demonstrates the importance and increasing breadth of quantitative methods in the earth sciences With contributions from an international cast of leading practitioners chapters cover a wide range of state of the art methods and applications including computer modeling and mapping techniques Many chapters also contain reviews and extensive bibliographies which serve to make this an invaluable introduction to the entire field In addition to its detailed presentations the book includes chapters on the history of geomathematics and on R G V Eigen the father of mathematical geology Written to commemorate the 25th anniversary of the International Association for Mathematical Geology the book will be sought after by both practitioners and researchers in all branches of geology

Proceedings of the Army Numerical and Computers Analysis Conference ,1982 **Avionic Inertial and Radar Navigation Systems Specialist (AFSC 32854): Navigation computers and weapons release computer system**

Charles A. Ireland,1984 **Geocology and Computers** SergeyA. Yufin,2018-05-02 This volume presents technical papers devoted to development and practical use of computer methods in geotechnical and geoenviromental engineering It covers issues on space use and construction soil and rock mechanics and mining applications amongst other topics **We Computers** Hamid Ismailov,2025-08-19 A multilayered exploration of poetry authorship and digital intelligence by a writer of immense poetic power The Guardian Many paths cross in Ismailov s beautiful new work poetry history and the infinite imagination Every path winding into another Every path worth taking Patti Smith In the late 1980s French poet and psychologist Jon Perse finds himself in possession of one of the most promising inventions of the century a computer Enchanted by snippets of Persian poetry he learns from his Uzbek translation partner Abdulhamid Ismail Jon Perse builds a computer program capable of both analyzing and generating literature But beyond the text on his screen there are entire worlds of history philosophy and maybe even of love in the stories and people he and AI conjure Hamid Ismailov brings

together his work as a poet translator and student of literature of both East and West to craft a postmodern ode to poetry across centuries and continents Crossing the po tes maudits with beloved Sufi classics blending absurdist dreams with the life of the famed Persian poet Hafez moving from careful mathematical calculations to lyrical narratives Ismailov invents an ingenious transnational poetics of love and longing for the digital age Situated at the crossroads of a multilingual world and mediated by the unreliable sensibilities of digital intelligence this book is a dazzling celebration of how poetry resonates across time and space

When Computers Were Human David Alan Grier, 2013-11-01 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother s casual remark I wish I d used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley s comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were rewarded by a new electronic machine that took the place and the name of those who were once the computers

Computers in Fisheries Research Bernard A. Megrey, Erlend Moksness, 2013-06-29 In 1989 we were asked by Dr Vidar Weststad National Oceanographic and Atmospheric Administration National Marine Fisheries Service Alaska Fisheries Science Center Seattle USA to prepare and convene a session at the 1992 World Fisheries Congress in Athens Greece on computer applications in fisheries We agreed that the idea was a good one and the computer session turned out to be very successful The computer session was organized in three parts training classes informal demonstrations accompanied by posters and oral presentations of scientific papers We were both amazed by the high level of interest and the high quality of contributions presented at the paper session Returning from the World Fisheries Congress we suggested to the International Council for the Exploration of the Sea ICES in Copenhagen to hold a theme session on the topic Computers in Fisheries Research at their statutory meeting the following year in Dublin Ireland The proposal was very positively received by ICES and we began organizing this new meeting with Dr John Ramster of the Ministry of Agriculture Fisheries

and Food Fisheries Laboratory Lowestoft England Based on our experience with the World Fisheries Congress we expected a maximum of 15 titles would be submitted to the ICES theme session Accordingly the ICES symposium was originally allocated one half day time slot The response we received from the call for papers however exceeded our most optimistic expectations A total of 62 abstracts were submitted Consequently *Fundamentals of Wearable Computers and Augmented Reality* Woodrow Barfield,2015-07-29 Data will not help you if you can't see it where you need it Or can't collect it where you need it Upon these principles wearable technology was born And although smart watches and fitness trackers have become almost ubiquitous with in body sensors on the horizon the future applications of wearable computers hold so much more A trusted refer

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