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Monterey, California, Naval Postgraduate School

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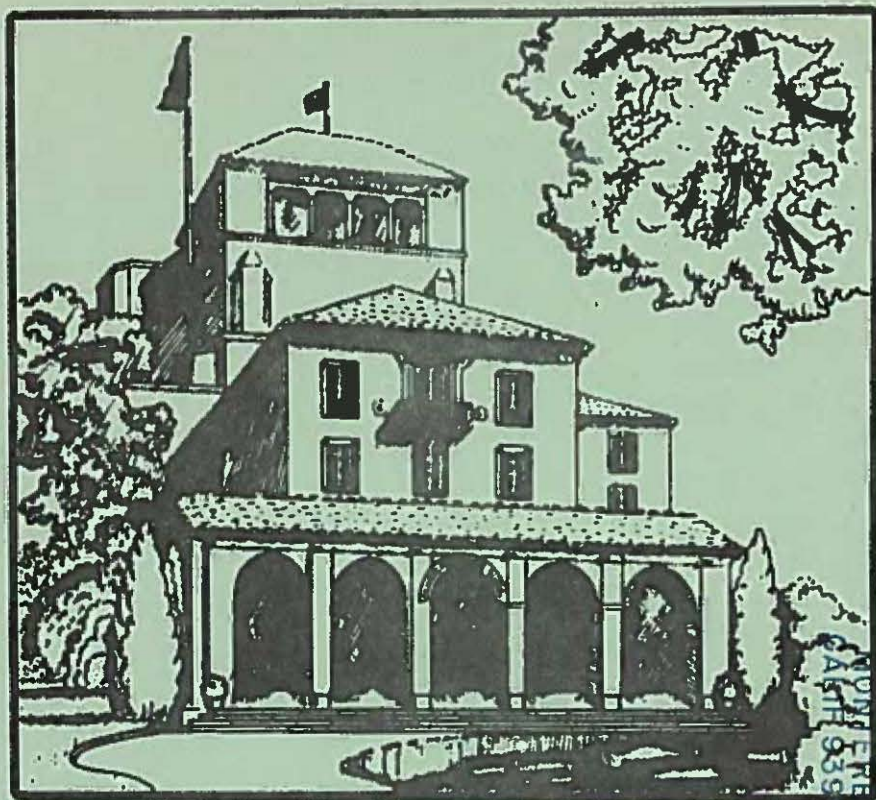
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U.S. Naval Postgraduate School

FACULTY BULLETIN

16 October 1967

CHANGE OF COMMAND

Rear Admiral Robert W. McNitt will assume command as Superintendent of the Naval Postgraduate School in a Change of Command Ceremony at 1500 Monday, 23 October, in the area adjacent to Spanagel Hall. For RADM McNitt's introduction to the School, briefings by staff officers and department chairmen are scheduled in the mornings of his first three weeks at the School. On Friday evening, 3 November, faculty and staff will hold a reception honoring RADM and Mrs. McNitt in the Main Ballroom of Herrmann Hall.

ACADEMIC RANKS FOR MILITARY MEMBERS OF
THE FACULTY

The following academic ranks have been approved for military members of the faculty who joined the faculty this year:

	<u>Department:</u>	<u>Academic Rank:</u>
CDR R. Carrigan, USN	Meteorology & Ocean.	Instructor
CDR R. L. Ceres, USN	" "	Instructor
CDR C. F. Giles, USN	" "	Instructor
LTJG C. A. Campbell, USNR	Mathematics	Instructor
LTJG L. W. Deaton, USNR	Mathematics	Instructor
LTJG G. L. Barksdale, USNR	Mathematics	Instructor
LTJG D. C. Wooten, USNR	Aeronautics	Assistant Prof.
LTJG T. B. Cochran, USNR	Physics	Assistant Prof.
LTJG T. Williamson, USNR (Will report December 1967)	Physics	Assistant Prof.
LT E. H. Bailey, USN	Bus Admin & Econ	Instructor
LTJG R. K. Lochridge, USNR	Bus Admin & Econ	Instructor
LT COL J. P. Connolly, USMC	Navy Management Systems Center	Assistant Prof.
1/LT D. W. DeHayes, USA	Navy Management Systems Center	Instructor
LCDR F. L. Edwards, USN	Aviation Safety Program	Instructor

CONSTRUCTION OF THE LIBRARY DELAYED

Prospects for authorization of construction of the Library in FY 1968 vanished in early October when the Joint House-Senate Committee failed to include the Library in their proposed Military Construction Authorization Bill. The Library had been included in the House version of the Authorization Bill, but later it was deleted from the Senate version. It has been indicated that this was one of a number of military construction proposals deleted because of lack of a direct contribution to the Vietnam Conflict. A BuPers representative stated that the Bureau will give it a high priority for FY 1969.

PRINCIPAL PROFESSIONAL ACTIVITIES

Associate Professor M. B. Danard of the Department of Meteorology and Oceanography presented an invited paper at the XIVth General Assembly of the International Union of Geodesy and Geophysics at Lucerne, Switzerland, September 25- October 7. The paper was entitled "Water Balance of Extratropical Cyclones.

The Third Edition of the Handbook of Tables for Mathematics, recently published by the Chemical Rubber Company, lists Professor R. E. Gaskell, Chairman of the Department of Mathematics, as a member of its Mathematics Advisory Board. Professor Gaskell edited the material on Integral Transforms contained in the Handbook.

Professor Glenn H. Jung of the Meteorology and Oceanography Department presented an invited paper entitled "Curricula with Oceanography Applications at the Naval Postgraduate School" at the 1967 Pacific Command Oceanographic Conference held at Camp H. M. Smith, Hawaii, October 2-5. He also participated in an Oceanographic Roundtable Discussion of operational oceanographic products furnished to the Fleet, held at Fleet Weather Central, Pearl Harbor, on October 6.

Commander Donald M. Layton, USN, Director, Aviation Safety Programs, spoke to the Carmel Rotary Club on Wednesday, 11 October 1967. His subject was "Supersonic Superboom."

A paper co-authored by Professors J. R. Neighbours and G. E. Schacher of the Department of Physics was presented by Professor Neighbours at the IEEE Conference on Ultrasonics held in Vancouver, B. C., October 4-6. The paper was entitled "Relations between Elastic Constants and Sound Velocity in Crystals of General Symmetry."

A paper co-authored by LT E. J. Sturm, USN, and Associate Professor R. E. Reichenbach of the Department of Aeronautics was presented by LT Sturm at the 4th ICRPG Solid Combustion Conference held in Menlo Park October 10-11. The paper was entitled "An Experimental Study of the Effect of Solid Ingredient Particle Size on Burning Rates of Composite Solid Propellants in Acceleration Fields."

Professor G. J. Thaler of the Department of Electrical Engineering presented a paper entitled "Transient Response of Non-linear Systems" at the Allerton Conference held at the University of Illinois, October 4-6. The paper was co-authored by LT'D. L.

DISTINGUISHED VISITORS

Vice Admiral Roger Brard of the French Navy will visit the Postgraduate School on 19-20 October. At 11 o'clock on the 20th he will conduct a seminar in Spanagel Hall on the topic: "A General Survey of the Problem of Hull Resistance." The seminar is sponsored jointly by the Departments of Mechanical Engineering and Physics.

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Rear Admiral Paul A. Holmberg, USN, Assistant Commander of Naval Air Systems Command for Research and Technology, will visit the Postgraduate School on 19-20 October. The primary purpose of his visit is to get acquainted with School facilities and research programs.

PROFESSIONAL MEETINGS

Second Workshop on Navy In-House Analysis Efforts

Under the sponsorship of the Director of Naval Laboratories, the Postgraduate School will host the Second Workshop on Navy In-House Analysis Efforts on 16-17 October. The major problem the workshop will address is the growing requirement for analysis and possible programs for developing the Navy In-House capability to meet the long-term needs. Professor J. R. Borsting, Chairman of the Operations Analysis Department, will participate as a member of the Workshop. Other members are: Mr. C. Schaniel, NWC, China Lake, Chairman and organizer of the workshop; Dr. R. Burns, Office of the Deputy CNO (Development); Mr. D. MacInnes, Naval Air Development Center; Mr. J. Marvin, ONR; Mr. B. Petrie, Office of the Director of Naval Laboratories; Mr. M. Sheehy, NEL; Dr. A. Solem, Systems Analysis Group, ASW Special Projects Office; Dr. S. Waleszczak, CNO Systems Analysis Division; and Dr. P. Waterman, NRL.

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Conference on Numerical Prediction, American Meteorological Society

The Postgraduate School will host a Conference on Numerical Prediction to be held October 31-November 3 at King Hall. Professor G. J. Haltiner, Chairman of the Department of Meteorology and Oceanography, is serving as General Chairman

for the Conference; Professors M. B. Danard and W. C. Thompson are assisting on the Program Committee; Professor C. L. Taylor is Chairman of the Arrangements Committee; and Professor R. J. Renard has Publicity. Professor Haltiner will convene the Conference and chair the first session on Objective Analysis. The following papers by faculty members will be presented:

"Fields by correlation assembly--an objective analysis technique," by Associate Professor M. B. Danard, Dr. M. M. Holl and Professor J. R. Clark.

"A study of the vertical motions in the lower stratosphere during the period 1 to 4 April 1963," by Professor F. L. Martin, LCDR D. Chin, USN, Instructor, and LT J. D. Jarrell, USN.

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AIAA

The first formal meeting of the Point Lobos Section, American Institute of Aeronautics and Astronautics, was held in the El Prado Room on Tuesday, 10 October 1967. Captain W. H. Livingston, Deputy Superintendent for Operations and Programs, was the featured speaker. Professor Allen E. Fuhs, Chairman of the Department of Aeronautics, is the Chairman of this newly organized section of this professional society.

* * *

First Asilomar Conference on Circuits and Systems

The Naval Postgraduate School and the University of Santa Clara are co-sponsoring the Conference on Circuits & Systems to be held at Asilomar 1-3 November. Professor S. R. Parker of the Department of Electrical Engineering is Co-Chairman of the Conference and will welcome the participants at the opening session. The guest speaker at the banquet on Thursday night will be Professor M. E. Van Valkenberg, Chairman of the Department of Electrical Engineering at Princeton University.

Among the 100 papers to be presented at the Conference are the following papers contributed by NPGS faculty members. (Faculty members are from the Department of Electrical Engineering unless otherwise noted.)

"Obtaining Impulsive Solutions to Optimization Problems by Gradient Techniques," Professor F. D. Faulkner, Department of Mathematics.

"Parameter Optimization in Linear Feedback Control Systems with Observability Constraints," Professors J. S. Demetry and H. A. Titus.

"An Iterative Analog Computer Technique for Selecting the Parameter Values in the Study of Dynamic Systems," Associate Professor G. A. Rahe.

"Polynomial Approximations for the Feedforward Compensation of Systems with Inherent Time Delay," Professor S. R. Parker and LT R. W. Seiler, USN, Naval Academy.

"Hybrid (Parallel and Sequential) Digital Techniques for Spectrum Analysis," Professors H. A. Titus and R. M. Johnson, and CAPT D. H. Adams, USMC.

"The Numerical Solution of Some Deterministic Differential Games with a Pure Strategy," Professors W. E. Bleick and F. D. Faulkner, Department of Mathematics.

In addition, Professor Parker will chair Session IV on "Time-Varying Systems and Circuits," Professor Thaler will chair Session X on "Analytical Methods," and Professor Titus will chair Session XVI on "Stochastic Processes."

Students and faculty of the Postgraduate School will be able to attend conference sessions without paying the registration fee (\$15). However, Asilomar requires a \$1 per day ground-use fee of all attendees who are not living on the grounds. Tickets for this purpose may be purchased from Mrs. Lawrence in Dean Menneken's office. In order to receive a copy of the conference proceedings, payment of the registration fee must be made.

NOTICE

Assistant Professor Roger N. Folsom, Business Administration and Economics, and Associate Professor Carl R. Jones, Operations Analysis, have organized a faculty seminar in Economic Theory. This seminar will be concerned with the integration of value theory and monetary theory. It will meet every Tuesday, beginning 17 October, 1600 in Herrmann Hall, Room W518. The seminar is open to all interested faculty. Such faculty are requested to contact either Professor Folsom (Extension 2401) or Professor Jones (Extension 2471) as soon as possible.

CALENDAR OF PROFESSIONAL ACTIVITIES

W. van der Bijl	10/5-11/6	Montreal, Canada	Discuss meteorological research at the Arctic Center, McGill Univ.
		Argentia, Newfoundland	Visit Fleet Weather Facility
C. E. Menneken	10/6	Sunnyvale	Attend briefing at Lockheed on proposed Sea-Mine Power Source.
L. V. Schmidt	10/8-10/15	Langley Field, Va Dahlgren, Va Washington	Attend Aeroelasticity and Structures Panel Mtg for Naval Aeroballistic Advisory Com Briefing at NASA; discuss programs at DTM
B. F. Huff R. H. Stolfi F. M. Teti	10/9-10/13	Stanford	Attend Conf of the Hoover Inst on War, Revolution and Peace. (50 Years of Communism in Russia)
W. W. Denner	10/9-10/13	Corvallis, Ore	Discuss FNWF project at Oregon State Univ, Dept of Oceanography
W. F. Koehler	10/10-10/19	Washington	Att Annual Mtg of American Council on Education; visit BuPers.
E. K. Gatcombe	10/10-10/13	Latham, N Y	Att an ONR-sponsored Conf on Lubrication and Wear.
CDR W. A. Higley	10/10-10/13	San Diego	FAAWTC, update NTDS course material.
L. D. Kovach	10/13-10/14	San Francisco	Att Teacher Education Accreditation Workshop
O. M. Baycura	10/17-10/21	Austin, Texas	Att 8th Annual Symposium on Switching and Autom Theory.
CAPT T. A. Melusky	10/18	Oakland	Mills College, represent NPGS at inauguration of President.
A. E. Fuhs	10/19-10/20	Sunnyvale	Att NAAG mtg at Lockheed

E. Sinclair	10/21-10/24	Lexington, Mass	Att Lexington Conference.
L. Kelly	10/22-11/5	Washington Gaithersburg, Md Norfolk, Va	Consultation on NRL Spectroscopy project
Haupt H. Lindsey	10/23-10/27	Anaheim, Calif	Att AIAA 4th Ann. Mtg and Technical Display.
A. Erickson M. Teti	10/26-10/29	Kansas City, Mo	Att Nat'l Mtg of the American Studies Assn.
F. Rinehart	10/26-10/28	Washington, Gaithersburg, Md	Serve as member of the Panel Advisory to the Technical Analysis Div. of Nat'l Bureau of Standards.
J. D. W. DeHayes	10/28-10/31	Columbus, Ohio Chicago, Ill.	Visit Ohio State Univ. Att. ORSA Nat'l Mtg.
M. Tolles	10/30	Anaheim, Calif	Att. Pacific Conf. on Chemistry and Spectroscopy.
Gerba	10/31-11/2	Los Angeles	Att. 14th Nuclear Science Symposium.
R. Borsting M. Woods M. Pollock	10/31-11/3	Chicago	Att. Nat'l Mtg. of ORSA.