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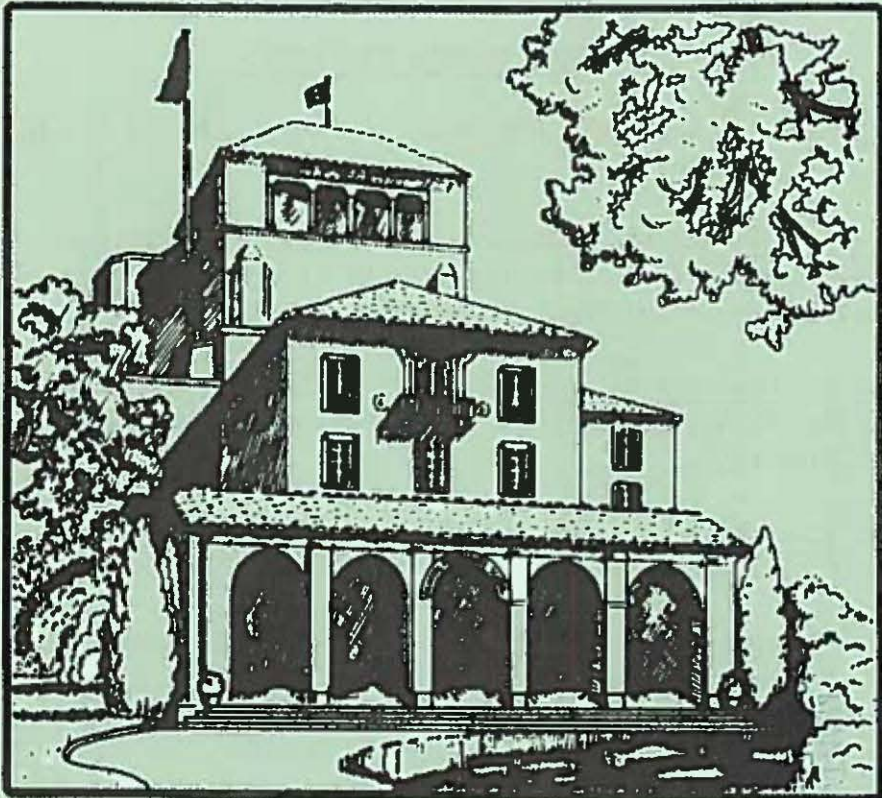
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FACULTY BULLETIN

ISSUE NO. 7-76

26 July 1976

CNO TO VISIT NAVAL POSTGRADUATE SCHOOL 29 JULY

Admiral James L. Holloway, III, USN, Chief of Naval Operations, will visit the Naval Postgraduate School on Thursday, 29 July 1976. He will speak to the students at 1500 in King Hall.

In addition to the lecture to the student body, he will address the International Officer students, and have further informal discussions with students at a special luncheon.

DISTINGUISHED VISITORS

During the month of July, the following visited the Naval Postgraduate School:

Mr. Robert B. Hammond, Comptroller, Defense Security Assistance Agency, Washington, D.C., addressed the Senior International Defense Management Class on Friday 2 July 1976.

RADM John V. Josephson, USN, COMPATWINGSPAC, participated in a review of the ASW Program and presented a seminar at the Postgraduate School on 6 July 1976.

The NavAir Executive Management Program's Board of Advisors convened for the annual conference on 7 July 1976. The Board consists of:

Mr. Joseph Damico, Director, Bureau of Executive Manpower
Mr. William Paz, Director, OCMM
Mr. G. B. Hartzog, Ragan and Mason, New York
RADM R. G. Freeman, III, USN, Director, Naval Weapons Center,
China Lake
Dr. P. E. Torgersen, Virginia Polytechnic Institute.

MGEN Fred E. Haynes, USMC, Deputy Chief of Staff for Research, Development and Studies, Hqs Marine Corps, and Dr. Alexander L. Slafkosky, Scientific Advisor, Hqs Marine Corps, were at the School on 7 July 1976 for briefings and discussions with the Superintendent, Provost and faculty representatives relating to U.S. Marine Corps Operations Research education programs.

On 13 July 1976, the Chief of Staff, Federal German Navy, Vice Admiral Gunter Luther, visited the School, visited with the German students and gathered information on the curriculum of the Naval Postgraduate School.

Human Relations Management and Manpower Personnel Curricular Review was the purpose of a visit of Mr. C. M. West, Staff, Chief of Naval Education and Training, on 12-15 July 1976. The review team was led by VADM J. D. Watkins, USN, Chief of Naval Personnel. Members of his party were Captain J. L. White, USN; Commander Dana French, USN; LCDR Dorothy Prose, USN; LCDR David Mattis, USN; and LT A. G. Tartar, USN.

The Area Coordination Review was conducted 14 July 1976 under the direction of RADM J. T. Coughlin, USN, Commandant Twelfth Naval District.

Academic Personnel of the Bundeswehr Universities visited the Naval Postgraduate School 18-24 July to study the administrative procedures and curricular content to aid them in the initiation of a full-scale education program at the Bundeswehr. Personnel visiting were:

Professor Horst Sanmann	Professor Wolfram Funk
Professor Hauke Trinks	Professor Gerhard Flachewecker
Professor Franz Hindelang	Professor Gerhard Seeger
Professor Ruediger Wiehle	Commander Lutz von Wangenheim, FGN
Commander Herbert Ploetz, FGN	Commander Detlef Kammholz, FGN, Coordinator

Dr. Kermit O. Hanson, Dean, Graduate School of Business Administration, University of Washington, and a member of the Board of Advisors to the Superintendent, was briefed on curricula and activities at the Naval Postgraduate School 20-21 July 1976.

Captain James B. Wheeler, USN, Deputy Commander, Research and Technology Directorate, Naval Electronic Systems Command, on 21 July 1976 discussed the NavElex Programs being conducted at the Naval Post-Graduate School.

Following personnel conducted the Army OR/SA Curriculum Review at the Postgraduate School on Thursday, 22 July:

Mr. David C. Hardison, Deputy Under Secretary of the Army for Operations Research
Colonel Reed Davis, Deputy Commander, USA CACDA
Major David Hugus, USA, CACDA
Lt Colonel John Hesse, USA, TRASANA
Lt Colonel Frank Tilton, Department of the Army DCSOPS
Major Charles Ulrich, Hq TCATA
Mr. Walter Hollis, Scientific Advisor, USA OTEA
Dr. Marion Bryson, Scientific Advisor, Hq USA CDEC

VADM KO Tung-Hwa, Republic of China Navy; Commandant, War College; and Vice President, Armed Forces University, visited the School 23-28 July to discuss curricula content, educational methodology and institutional organizational concepts.

Mr. Hugh E. Witt, Administrator for Federal Procurement Policy in the Office of Management and Budget, delivered the Ninth Bannerman Memorial Lecture in Management and Systems Acquisition on Tuesday, 27 July 1976, in King Hall. His topic was: "Procurement and Acquisition Policy - The View from the Top." The Bannerman Lectures are a series of lectures given quarterly sponsored by the Secretary of the Navy given by top-level speakers from government, industry, and academia.

Mr. David D. Clement, Special Assistant to Congressman Burt L. Talcott, was on the campus on 28 July for a familiarization with the Naval Postgraduate School and Fleet Numerical Weather Central MILCON Plans.

Also visiting the School for a familiarization visit of the NPS, FNWC, and NEPRF, was Lieutenant General Sir Rollo Pain, KCB, MC, Chief of the British Defense Staff and Defense Attache, Washington, on 28 July.

RADM Thorleif Pettersen, Norwegian Navy on 28-29 July reviewed the Norwegian students' programs; the Naval Postgraduate School organization and curricular programs; and met with the Norwegian students.

Commander Mulhern, USN, Training Officer, COMPATWINGSLANT; LCDR Anderson, USN; LT Mertz, USN; and LTJG Callan, USN, visited the Postgraduate School on 29 July to discuss the ASW program, off-campus education, present a VP-10 postdeployment brief, and provide a P-3B static display.

Captain Paul V. Borlaug, USN, Executive Officer, Joint Tactical Communications (TRITAC) Office, conducted a seminar for Telecommunications Systems and Communications Engineering students on 29 July 1976.

FACULTY PROFESSIONAL ACTIVITIES

Professor Craig Comstock has just been promoted to full member in URSI (Union Radio Scientifique Internationale).

On 15 July Professor D. B. Hoisington, Electronic Warfare Group Chairman, and Commander P. S. Roder, Curricular Officer for Electronics and Communications Programs, presented a paper entitled "The Operational Electronic Warfare Curriculum at the Naval Postgraduate School" at the Fifth Annual Prowler Electronic Warfare Symposium. The Symposium was held at the Naval Air Station, Whidbey Island, WN. Other educational opportunities at NPS for officers and civilians were also briefly discussed.

Professor T. Sarpkaya of Mechanical Engineering Department chaired a session and presented a paper titled "Periodic Flow about smooth and rough cylinders at Critical Reynolds Numbers" at the 15th International Conference on Coastal Engineering held in Honolulu on 11-17 July 1976. Professor Sarpkaya also took part in invited committee meetings and presented summaries of his current research on periodic flows.

Professor Sarpkaya also has received a letter of appreciation from the Civil Engineering Laboratory, Naval Construction Battalion Center, Port Hueneme, CA, for his scientific assistance with a major ocean engineering experiment, which saved the Navy approximately \$30,000 and three months' time in research effort.

In response to a survey of Education and Professional Practice by the American Institute of Industrial Engineers, Dean David Schrady prepared a short article describing the NPS Operations Research/Systems Analysis Program. This note appears in AIIE Transactions, Vol. 8, No. 1, March 1976. The survey was especially interested in questions dealing with the extent to which academic programs know their clientele (i. e., industry and government) and their clients' needs. NPS is probably unique in this regard.

Professor John Senger presented a paper entitled "Psychological Correlates of Naval Officer Promotion Patterns" at the Military Operations Research Society's annual meeting in El Paso, Texas, on June 22, 1976.

Professor Chester A. Wright, Administrative Sciences Department, presented a paper entitled "Marketing Human Goals Programs to Graduate Level Military Officers" at the B5 Working Group of the 37th Symposium of the Military Operations Research Society in El Paso, Texas, 22-24 June 1976.

Professor Norman F. Schneidewind, Operations Research Department, presented the paper "Validation Tests for a Software Error Simulation Model" at the 1976 Summer Computer Simulation Conference on 12 July 1976 at Washington, D. C.

Professor R. P. Shreeve, Aeronautics Department, attended the AIAA 9th Fluid and Plasma Dynamics Conference in San Diego, 14-16 July, and presented a paper "Calibration and Application of Multiple-Sensor Pneumatic Probes for Velocity Determination with Corrections for Boundary Effects."

VISITING FACULTY

Georges Verchery is a Visiting Professor in the Department of Mechanical Engineering until the end of the month of August. Professor Verchery is a graduate of Ecole Polytechnique of Paris (1967). After graduation he pursued graduate studies in Continuum Mechanics at the University of Paris (Universite Pierre et Marie Curie) and obtained the Doctorate in 1973. He is currently Professor at the Universite de Technologie in Compiègne, France. He has contributed significantly to the Theory of Composite Materials and consulted extensively with industry in that field. He will be conducting research work in collaboration with Professor Gilles Cantin in the area of Finite Element Applications to the Theory of Shells during his stay in Monterey.

NOTICE

Material for the Faculty Bulletin should be submitted to The Editor, LCDR James Carwin, USN, Code 0304. It is requested that abstracts for publications be limited to 50 words.

FACULTY PUBLICATIONS

Thomas, M. U.

Book review. Queueing Systems Volume I: Theory. By L. Kleinrock. Soc. Industr. and Appl. Math. Review, Vol. 18, No. 3, pp. 512-514, 1976.

Comstock, C. and Dunne, P. W., LTJG, USN.

Second Order Equations with Two Point and Integral Boundary Conditions. J. Math Anal. Appl., Vol. 54, May 1976, pp 558-562.

Abstract: The existence of eigenvalues for second order linear equations with a combination of integral and non-separated boundary conditions is proved. This generalizes some recent results, due to Etgen and Tefeller, and W. M. Whyburn.

Schneidewind, NF.

Validation Tests for a Software Error Simulation Model. Proceedings of the 1976 Summer Computer Simulation Conference, July 1976.

Abstract: Tests are described for validating a software error simulation model. Comparisons are made between simulation and analytical model results for selected program structures. The problems encountered in applying the models to the analysis of large Navy Tactical Data System Modules are described.

Schrady, D.A. et al.

Are We Gambling with OR/MS Education. Interfaces (publication of the Institute of Management Sciences), Vol. 6, No. 3, May 1976.

Abstract: This article is a collection of the prepared remarks of panelists, all education consumers rather than educators, who participated in the panel session organized by Dean Schrady for the Joint National Meeting of the Operations Research Society of America and the Institute of Management Sciences, Las Vegas, November 1975.

Thomas, M. U. and Nisgav, Y.

An Infiltration Game with Time Dependent Payoff. Naval Res. Logist. Quart., Vol. 23, No. 2, 1976, pp. 297-302.

Abstract: The problem of assigning patrol boats, subject to resource constraints, to capture or delay an infiltrator with perishable contraband attempting escape across a long, narrow strait is formulated as a two-sided time sequential game. Optimal mixed strategies are derived for the situation of one patrol boat against one smuggler. Procedures for obtaining numerical solutions for $R > 1$ patrol boats are discussed.

FACULTY TRAVEL ORDERS TO 29 JULY 1976

Supported by Research Funds

Oppens, A.B.	7-16Sep76	Various Cities	Teach two short courses
Shs, A.E.	15-17Aug76	San Diego	Participate in AIAA conference
Arto, P.J.	8-11Aug76	St Louis	Present paper at Heat Transfer conf.
Davidson, K.L.	8-14Aug76	Boulder	Visit Part. Meas. Inc.
		Minneapolis	Visit Thermo-Systems Inc.
Alleher, M.D.	8-11Aug76	St. Louis	Attend Heat Transfer conference
Schwirzke, F.R.	5-7Aug76	San Diego	Visit Gen. Atomic and UCSD
uskirk, F.R.	4-10Aug76	Boston	Present paper at Photonuclear conf
etzer, D.W.	2-5Aug76	China Lake	Conduct research at NPS and NWC
ovach, L.D.	1-7Aug76	Cable	Attend PSI workshop
oods, W.M.	1-7Aug76	Various Cities	"
icas, K.R.	1-7Aug76	Cable	"
irpkaya, T.	31Jul-7Aug76	Trondheim Delft	Present paper at international conf "
arrison, D.E.	31Jul-6Aug76	Andover	Attend Gordon research conference
Schwirzke, F.R.	29 Jul 76	Berkeley	Discuss research at Atomic Phys. cor
etus, H.A.	27 Jul 76	Los Angeles	Visit laboratory at USC
ilson, O.B.	29-31Jul76	Keyport	Discussions at Naval Torpedo Station
ossum, R.R.	26-30Jul76	Wash DC	Coordinate research with DOD
reeve, R.P.	26 Jul 76	Palo Alto	Attend AIAA/SAE conference
edwin, H.	25-26Jul76	Portland	Visit Oregon State University
amm, C.F.	25Jul-12Sep76	Wash DC	Consultation on C ³ systems
ullivan, T.M.	23Jul-1Aug76	Indian Head Dallas	Perform experiments aboard R/V Acari Visit manufacturing plant
etus, H.A.	23 Jul 76	Stanford	Attend Image Processing workshop
idson, R.R.	22-23Jul76	Los Angeles	Receive award, attend meeting
ller, R.W.	19 Jul 76	San Diego	Work on AMZMAT plan at NELC
lch, P.R.	19-20Jul76	San Diego	Conduct research with NPRDC staff
itterworth, R.W.	19-20Jul76	San Diego	"
Shs, A.E.	19 Jul 76	Stanford	Attend AIAA Fellow Selection meeting
anke, R.H.	17-30Jul76	Salt LakeCity	Conduct research at U of Utah
olly, J.A.	16Jul-undef	Various Cities	Conduct Navy Graduate Program in Mgn and coordinate for NAVAIR program
ipple, D.R.	15 Jul 76	Stanford	Discuss research with consultant
ng, P.C.C.	15-16Jul76	"	Research consultation at SRI
Shs, A.E.	14-15Jul76	San Diego	Attend AIAA Editor's meeting
reeve, R.P.	14-15Jul76	"	"
isington, D.B.	13-16Jul76	Keyport	Deliver paper at BAQ-129 Symposium
ittenden, E.C.	13-14Jul76	Wash DC	Attend Optical Signatures Prog. Rev.
Davidson, K.L.	13-15Jul76	Wash DC	"
nard, R.J.	13-15Jul76	Wash DC	"
blarz, O.	13-16Jul76	San Diego	Present paper at AIAA conference
rtman, J.K.	12-13Jul76	San Diego	Research consultation with FCDSSA
ward, G.T.	12-13Jul76	San Diego	"
arrison, C.J.	12-18Jul76	Honolulu	Attend international conference
hneidewind, N.F.	12-14Jul76	Wash DC	Present paper at Simulation conf.
etus, H.A.	11-13Jul76	Seattle	Attend Optical Sig. Process. worksho

Yao, T.F.	11-14Jul76	Seattle	Attend Optical workshop
Adler, R.W.	11-16Jul76	Wash DC	TESS Action Council convention
Barbyshire, L.	10-15Jul76	"	Attend DOD symposium
Bussak, I.B.	8Jul-9Sep76	Port Hueneme	Conduct research
Bell, R.W.	8-9Jul76	Los Angeles	Attend planning conference
Barr, D.R.	8-21Jul76	Leavenworth	Deliver short course at CACDA
Bovereign, M.G.	7-8Jul76	Wash DC	Attend SECNAV meeting
Barbyshire, L.	6Jul-7Aug76	Pt Mugu	Teach NAVAIR seminar
Breighton, J.W.	6Jul-30Sep76	Various Cities	Conduct Navy Grad Program in manage ment and coordinate NAVAIR program
Chang, C.P.	6-9Jul76	Various Cities	Visit NSF & NOAA; present paper at conference; visit U of Pittsburg
Thompson, W.C.	5-10Jul76	Honolulu	Attend engineering conference
Boisington, D.B.	5-9Jul76	Colo Springs	Attend Tri Service Radar symposium
Boyang, C.K.	4-31Jul76	Various Cities	Present paper to NATO; research at HRMC London; visit Stockholm, Munic
Bhelson, J.E.	3-8Jul76	Honolulu	Perform tests at NAVCAMS EASTPAC
Berr, C.B.	3-11Jul76	Paris	Deliver paper at NATO conference
Bittman, R.W.	2Jul-7Aug	Various Cities	Participate in nuclear research; visit labs, universities
Bolly, J.A.	1Jul-26Aug76	Various Cities	Conduct Navy Grad Program in Manage- ment; coordinate NAVAIR program
Breighton, J.W.	1-5Jul76	Pt Mugu	Conduct Navy Grad Program in Mgmt
Bossum, R.R.	1 Jul 76	Pasadena	Coordinate research with ONR
Bondrus, A.F.	1Jul-30Sep76	Arlington	Temporary assignment to Hq ONR
Biauque, W.C.	30Jun-9Jul76	Paris	Present paper at NATO conference
Baver, D.P.	28Jun-1Jul76	Wash DC	Confer with sponsors
Bavidson, K.L.	28Jun-4Jul76	Portland	Attend radar conference
Bhornton, E.B.	24Jun-17Aug76	Honolulu	Visit university; attend engr conf
Bamm, C.F.	24-29Jun76	Los Angeles	Conferences at NELC
Boulihan, T.M.	23Jun-20Jul76	Indian Head	Conduct research at Naval Ord Sta
Bovereign, M.G.	21-25Jun76	El Paso	Attend MORS symposium at Ft Bliss
Boyang, C.K.	20-26Jun76	Wash DC Boston	Visit OR Curriculum sponsor Consult with co-researchers at MIT

Supported by O&MN

Brima, J.K.	15-25Jul76	Paris	Attend international congress
Budson, R.R.	14-17Jul76	Wash DC	Attend committees, council & review
Budde, R.H.	11-16Jul76	San Diego	Attend ASW Orientation course
Bodds, W.M.	9 Jul 76	Sunnyvale	Visit Lockheed Missile & Space Co.
Bjhs, A.E.	9 Jul 76	Moffett Fld	Conduct NPS/NASA/AMES research
Bodds, W.M.	7 Jul 76	Sunnyvale	Visit Lockheed Missile & Space Co.
Banger, J.D.	21-25 Jun76	El Paso	Present paper at MORS symposium
Bomberger, R.B.	13Jun-2Jul76	Wash DC Various Cities	Consult with BUPERS Visit NAVSAFECEN; OSHA, Wash, DC; NFOIO, Ft Meade; NADC; Wash U

Supported by Other Funds

Brown, G.G.	27-30Jul76	Los Angeles	Test D.O.D.M.S. Software
Bomberger, R.B.	9-10Jul76	Moffett Fld	Deliver Safety presentation
Biller, R.W.	27-29Jun76	San Diego	Discuss EMX program at NELC

No Cost to the Government

Biblarz, O.	17Sep76-24Sep77	Haifa	Temporary duty at TECHNION
Dhlson, J.E.	10-26Sep76	Wessling	Present lectures at DFVLR, W. Germa
Sackman, G.L.	15-18Aug76	San Diego	Thesis research (ASW)
Sackman, G.L.	13 Aug 76	Pt Sur	Orientation/Familiarization (ASW)
Sackman, G.L.	6 Aug 76	"	"
Harrison, D.E.	31Jul-6Aug76	Andover	Attend Gordon conference
Sackman, G.L.	28 Jul 76	Moffett Fld	Tour of P3 and AQA-7
Polles, W.M.	21Jul-4Aug76	Stanford	Visits to SRI, Molectron; research
Perkins, A.J.	19-21Jul76	Livermore	Attend symposium at Lawrence lab
Andrews, R.S.	12-16 Jul 76	Moss Landing	Participate in marine cruise
Fremgen, J.M.	6-7Jul76	New York	Attend Accountants meeting

