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**REMARKS**

1984 ASA WILKS COMMITTEE

CHERNOFF, CHAIR.
CHAPMAN, DOUG
CROW
KULLBACK
PROSCHAN
SOLOMON

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August 7, 1984

Mathematical Sciences

Professor Frank Proschan
Department of Statistics
Florida State University
Tallahassee, Florida  32306

Dear Wilks Committee Member:

Thank you for participating in the selection of the Fourth Army Wilks
Award winner.  The winner is established on the basis of first place votes
unless there is a tie.  The votes are given below.

| F. Proschan | B. Harris | D. Tang | J. Moore | R. Launer |
|---|---|---|---|---|
| 1. Barlow | Parzen | Singpurwalla | Bryson | Singpurwalla |
| 2. Singpurwalla | Singpurwalla | Parzen | Parzen | Parzen |
| 3. Parzen | Crow | Bryson | Barlow | Barlow |

The winner by a "nose" is Nozer Sinpurwalla.

Sincerely,


Robert L. Launer
Chairman, Wilks
Award Committee

August 7, 1984

Mathematical Sciences

Professor Bernard Harris
Mathematics Research Center
University of Wisconsin-Madison
610 Walnut Street
Madison, Wisconsin 53706

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unless there is a tie. The votes are given below.

|  | F. Proschan | B. Harris | D. Tang | J. Moore | R. Launer |
|---|---|---|---|---|---|
| 1. | Barlow | Parzen | Singpurwalla | Bryson | Singpurwalla |
| 2. | Singpurwalla | Singpurwalla | Parzen | Parzen | Parzen |
| 3. | Parzen | Crow | Bryson | Barlow | Barlow |

The winner by a "nose" is Nozer Sinpurwalla.

Sincerely,


Robert L. Launer
Chairman, Wilks
Award Committee

August 7, 1984

Mathematical Sciences


Dr. Douglas B. Tang
Chief, Department of Biostatistics/
  Applied Math
Division of Biometrics & Medical
  Info Processing
Walter Reed Army Institute of Research
Washington, DC 20012

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|----|-------------|-----------|---------|----------|-----------|
| 1. | Barlow | Parzen | Singpurwalla | Bryson | Singpurwalla |
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                    Robert L. Launer
                    Chairman, Wilks
                    Award Committee

August 7, 1984

Mathematical Sciences

Dr. J. Richard Moore
Operations Research Analyst
Concepts Analysis Lab
USA Ballistics Research Laboratories
Aberdeen Proving Ground, Maryland  21005

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Robert L. Launer
Chairman, Wilks
Award Committee

March 22, 1984

Professor G. E. P. Box
Mathematics Research Center
610 Walnut Street
Madison, Wisconsin    53706

MAR 2 8 1984

Dear George:

On behalf of AT&T Bell Laboratories, I thank you very much
for visiting us and sharing your new ideas on experimental
design.  Some of us found your talk to be very helpful
in clarifying Taguchi's ideas also.  I greatly admire
your everlasting energy and wisdom to learn about new
ideas and constant drive to research into new statistical
methods which have industrial applications.

I will keep an eye for the kind of data you asked us to
generate, and collect such data at the earliest opportunity.
In the meantime, I will appreciate if you could send me in
a written form the details of your method for analyzing
error transmission.

I am very happy with your suggestion that Dr. Genichi
Taguchi be considered for Wilks Medal.  Dr. Fred Leone's
secretary is sending me information on nomination and
selection of Wilks Medal awardees.  Professor Herman Chernoff
is the chairman for the award committee, but he is out
of the country until April 2, 1984.  I will contact you
after gathering additional information.

Please send me a bill for your hotel and travel expenses
associated with your trip as per our conversation so that
we can reimburse you.

Thank you, again, for your trip.  We look forward to seeing
you at the may conference.  With kindest regards.

Yours sincerely,

*Madhav*

M. S. Phadke

MSP:amf
A. B. Godfrey
J. H. Hooper
R. N. Kackar

August 6, 1984

Mathematical Sciences

Dr. J. Richard Moore
Operations Research Analyst
Concepts Analysis Lab
USA Ballistics Research Laboratories
Aberdeen Proving Ground, Maryland  21005

Dear Committee Member:

The information for the nominees for the 1984 (fourth) Army Wilks Award is enclosed. There are seven names on the list--three are carry-over from last year. The guidelines currently allow us to keep each nominee on the active list for two years.

Please vote for a first, second and third place winner and please identify each name as such. This will give us enough information to break tie votes. Please try to send your votes or telephone them to me by about August 22, 1984, if possible.

Last year's winner, Professor H. A. David, declined to serve on the committee since he served on the selection committee for the first two years of its operation. Professor Frank Proschan has graciously agreed to serve in Professor David's stead.

Mr. Philip Rust, the donor of the award money, would like the winner of the award to be associated with the solution of an important statistical or mathematical problem in one of the Army labs. For several reasons, we have not specifically stated this in the guidelines. Sam Wilks is the model for this award, so apparently the problem doesn't have to be completely solved, especially if the problem is difficult enough.

The information on Larry Crow is a little sketchy, but he was a last minute nominee. He is on travel now, so I can't get specific facts. I will attempt to get more information on his return.

Thank you all for your participation.

Sincerely,

Robert L. Launer
Chairman
Committee for Army Wilks Award

Enclosures

August 6, 1984

Mathematical Sciences

Dr. Douglas B. Tang
Chief, Department of Biostatistics/
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Division of Biometrics & Medical
  Info Processing
Walter Reed Army Institute of Research
Washington, DC  20012

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Chairman
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Enclosures

August 6, 1984

Mathematical Sciences


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Department of Statistics
Florida State University
Tallahassee, Florida  32306

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Committee for Army Wilks Award


Enclosures

August 6, 1984

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Mathematics Research Center
University of Wisconsin
610 Walnut Street
Madison, Wisconsin  53706

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Thank you all for your participation.

Sincerely,

Robert L. Launer
Chairman
Committee for Army Wilks Award

Enclosures

# WILKS AWARD NOMINEES FOR 1984

## New Nominees

Dr. Larry Crow, Army Materiel Systems Analysis Activity
Professor Emanuel Parzen, Texas A&M
Professor Nozer D. Singpurwalla, George Washington University
Professor C. F. Wu, MRC, and University of Wisconsin

## Carry-over Nominees for 1983

Professor Richard E. Barlow, Berkeley
Dr. Marion R. Bryson, Director, CDEC
Professor Frank Proshcan,* Florida State University

*Professor Proschan is currently ineligible for this Wilks Award becuase he won the 1981 Wilks Award Administered by the ASA.

## R. E. Barlow

### Professor of Operations Research and Statistics, Berkeley

Scientific Contributions: Well known for his extensive work in reliability, applied probability, and Bayesian statistics. Some of his areas of interest are fault tree analysis, reliaiblity inequalities and total-time-on-test transform.

Published Work: More than 60 refereed journal articles. Co-author of three texts with Frank Proschan: Mathematical Theory of Reliability; Statistical Inference in Reliability and Life Testing; and a new text on data analysis in relaibility (to appear). Also, with Bartholomew, Brenner and Brunk, Statistical Inference Under Order Restrictions. Editor of Reliability and Fault Tree Analysis with Fussell and Singpurwalla.

Army Interactions: ARO contractor for 10 years. Invited representative at Tri-Services Review of Mathematical Sciences, 1983.

\* \* \* \* \*

## M. R. Bryson

### Director of the Combat Development Experimentation Command
### Ft. Ord, California

Scientific Contributions: Ph.D., Statistics, Iowa State University, 1958 (H. D. Hartley). Associate Professor in Mathematics and Community Health Sciences, Duke University, 1958-1968. Current interests are analysis of duty data from field trials and experiments, and military operations research.

Published Work: Twelve articles in biomedical and statistical medical journals. Approximately 10 articles in Defense Conference Proceedings.

Army Interactions: Statistics Program Coordinator at ARO, half-time, 1958-1968. Invited speaker at 1974 Design of Experiments Conference. Local host for 23rd and 28th DOE. Extensive general Army consulting during tenure at ARO. Past President and member of the Board of Directors, Military Operations Research Society. Technical Director, SAG, USACDC, Ft. Belvoir, 1968-1973.

\* \* \* \* \*

## L. H. Crow

### Chief, Methodology Branch, RAM-D, AMSAA

Scientific Contributions:  Ph.D. Statistics, Florida State University, (I. Shimi).  Principle developer for reliability growth theory and methods. Appointed member of the ASA Committee on Quality and Productivity.  Invited by Physics Society of U. K. to lecture on Reliability.  Member of International Electoral Technical Committee for standards for electrical commerce.  NATO Advanced Studies Institute - Post Doc, 1982 and 1986.

Published Work:  Open literature publications.

Army Interactions:  Member of AMSAA staff for approximately 12 years. American representative on the TTCP Committee.  Important Army spokesman and consultant for reliability methodologies.  Frequent presentations at DOE and AORS meetings.  Serves on MIL HDBK 189, "Reliability Growth Management," Committee.  Initiator and coordinator of GWU master's program in OR at APG.

\* \* \* \* \*

## Emanuel Parzen

### Distinguished Professor of Statistics, Texas A&M, University

Scientific Contributions:  Professor Parzen has made extensive contributions to the spectral analysis of time series, developed the mathematical foundation for nonparametric density estimation, and has developed a complete nonparametric probability-based statistical data modeling using quantile functions.  He is a member of the ISI, and elected fellow of IMS, ASA, AAAS and RSS.

Published Work:  He has published more than 75 papers in refereed statistics and mathematics journals.  Author of Modern Probability Theory; Stochastic Processes; and Time Series Analysis Papers.

Army Interactions:  Invited speaker at the 14th Design of Experiments Conference and ARO Workshop on Robustness in Statistics, 1980.  Presented technical papers at 27th, 28th and 29th DOE.  Recent important contribution at USAMMRC, Watertown, in analyzing failure data of composite materials used in special high stress Army applications.  This work is based on his recently developed methods under ARO contract (6 years).

* * * * *

## N. D. Singpurwalla

Professor of Operations Research and Statistics
and
Director of Institute for Reliability and Risk Analysis,
George Washington University


Scientific Contributions:  Well known authority in reliaiblity and life testing methodology.  Associate editor of six major statistics journals. Consultant to 19 major industries and government agencies, including U. S. Post Office, Department of Justice, USEPA, National Institute on Drug Abuse and U. S. Nuclear Regulatory Commission.  His current research interests include accelerated lift testing, software reliability, Bayesian life testing, failure rate estimation, time series analysis and goodness-of-fit procedures. Member of ISI, and fellow of IMS and ASA.

Published Work:  More than 70 published refereed articles in reliability and statistics journals.  Co-author (with Mann and Shafer), Methods for Statistical Analysis of Reliability and Life Data.  Co-editor (with Barlow and Fussell) of Reliability and Fault Tree Analysis.

Army Interactions:  Co-developer of sequential-Bayesian method for monitoring the reliability of Pershing II test data for ODUSA-OR.  This is a very important problem involving almost $100 million annually.  Also developed a new Bayesian method for estimating V-50 for kinetic energy penetrators. This problem arose at BRL and occurs in several other Army labs.  This method provides an estimate of the whole response curve. Invited speaker at 22nd and 27th Design of Experiments Conference and ARO/ONR Workshop on Reliability, 1981.  Presented special five-hour tutorial on accelerated testing at XIV Army Operations Research Symposium, 1980.  Gave three-day tutorial at ALMC, 1983, for Army OR Continuing Education Program at USALMC.  Instrumental in developing and participating in APG off-campus program originally proposed by AMSAA (L. Crow).  Member of working group at K/E penetrators at 27th DOE meeting.  Technical paper at 27th and 29th DOE.


* * * * *


## C. F. Wu

Professor, Statistics, University of Wisconsin and MRC


Scientific Contributions:  Winner of A. P. Sloan Fellowship for outstanding research in statistics, for 1983-1985.  Associate editor of Annals of Statistics.  Research interests include design of experiments, survey sampling and regression theory. Also bootstrap and sequential methods. Fellow, RSS.  Bright, young (35 years) researcher.

Published Work:  More than 25 papers in refereed journals.  Co-editor of
Scientific Inference, Data Analysis, and Robustness, (with G. E. P. Box and
Leonard).

Army Interactions:  Fundamental contributions to sequential designs for
sensitivity testing, related to K/E penetrator problem.  Worked on Army truck
maintainability problem at Tank Automative Command (with George Box and Mike
Robinson).  Provided solution to a statistical/ballistic problem in ODCS RDA,
relating to gunnery accuracy.  Member of MRC staff.  ARO contractor,
1982-1983.  Member of K/E Pentrator Working Group at 27th DOE meeting.

August 10, 1984

Mr. Robert L. Launer
Chairman
Committee for Army Wilks Award
Department of the Army
U.S. Army Research Office
P.O. Box 12211
Research Triangle Park, NC  27709

Dear Bob,

I vote as follows for the 1984 Army Wilks Award:

First place————————Richard E. Barlow
Second place———————Nozer Singpurwalla
Third place————————Emanuel Parzen

Cordially,

Frank

Frank Proschan
Professor

FP/lb

| CHECKED BOX APPLIES | ☐ ORDER FOR SUPPLIES OR SERVICES | ☐ REQUEST FOR QUOTATIONS NO. | | |
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| DAAG29-85-M-0014 | | OCT 5, 1984 | | |

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| Procurement Office U.S. Army Research Office P. O. Box 12211 Research Triangle Park, NC 27709 | | GLORIA D. CREWS - Purchasing Agent Telephone (919) 549-0641 | | ☒ DEST ☐ OTHER *(See Schedule if other)* |

| 9. CONTRACTOR/QUOTER | CODE | FACILITY CODE | 10. DELIVER TO FOB POINT BY: | 11. CHECK IF |
|---|---|---|---|---|
| NAME AND ADDRESS: ⌐ PROFESSOR NOZER D. SINGPURWALLA ¬ GEORGE WASHINGTON UNIVERSITY ⌐ ⌐ | | | OCT 12, 1984 | ☒ SMALL BUSINESS ☐ MINORITY BUSINESS |
| | | | 12. DISCOUNT TERMS NET | |
| | | | 13. MAIL INVOICES TO: See Block #15 below | |

| 14. SHIP TO: | CODE | 15. PAYMENT WILL BE MADE BY: | CODE | |
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| N/A | | Finance and Accounting Office U.S. Army Research Office P.O. Box 12211 Research Triangle Park, NC 27709 | | MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER |

| 16. TYPE OF ORDER | | |
|---|---|---|
| ☐ DELIVERY | This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. | |
| ☒ PURCHASE | Reference your _____, furnish the following on terms specified herein, including, for U.S. purchases, General Provisions of Purchase Order on DD Form 1155r *(EXCEPT CLAUSE NO. 13 APPLIES ONLY IF THIS BOX ☐ IS CHECKED, AND NO. 15 IF THIS BOX ☐ IS CHECKED)*; special provisions _____; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304(a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a)(6). | |
| | ☐ If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return _____ copies. | |

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| 21X8927.0020 6A-7300 4100 S31124 $750.00 |

| 18. ITEM NO. | 19. SCHEDULE OF SUPPLIES/SERVICES | 20. QUANTITY ORDERED/ ACCEPTED* | 21. UNIT | 22. UNIT PRICE | 23. AMOUNT |
|---|---|---|---|---|---|
| 0001 | 1984 Wilks Award | | | | $750.00 |
| | General Provision No. 5, DISPUTES, is deleted in its entirety, and the attached clause entitled, DISPUTES (DAR 7-103.12, Acquisition Letter 80-16, dated 2 Jul 80), is substituted in lieu thereof. General Provision No. 3, PAYMENTS, is deleted in its entirety, and the attached Invoices Provision shall be substituted in lieu thereof. | | | | |

| *If quantity accepted by the Government is same as quantity ordered, indicate by ✓ mark. If different, enter actual quantity accepted below quantity ordered and encircle. | 24. UNITED STATES OF AMERICA BY: HODGES T. THROCKMORTON CONTRACTING/ORDERING OFFICER | 25. TOTAL $750.00 |
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| | | 29. DIFFERENCES |

| 26. QUANTITY IN COLUMN 20 HAS BEEN: ☐ INSPECTED ☐ RECEIVED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED | 27. SHIP NO. ☐ PARTIAL ☐ FINAL | 28. D.O. VOUCHER NO. 300149 US ARMY RSCH OFC DSSN 5479 | 30. INITIALS |
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| | 31. PAYMENT ☒ COMPLETE ☐ PARTIAL ☐ FINAL | OCT 10 1984 RESEARCH TRIANGLE PARK, NC 27709 | 33. AMOUNT VERIFIED CORRECT FOR $750.00 |
| DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE | | | 34. CHECK NUMBER 125080 |

| 36. I certify this account is correct and proper for payment. | | | 35. BILL OF LADING NO. |
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| 10 Oct 84 DATE | FOR: R. R. COLLIER, DAC, F&AO SIGNATURE AND TITLE OF CERTIFYING OFFICER | | |

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Payee

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October 31, 1984

Mathematical Sciences Division

Professor Donald Gross
Chairman
Department of Operations Research
The George Washington University
Washington, DC  20052

Dear Professor Gross:

It is my great pleasure to inform you that Professor Nozer
D. Singpurwalla of the Department of Operations Research, the
George Washington University, has recently been awarded the 1984
"Wilks Award for Contributions to Statistical Methodologies in
Army Research, Development and Testing." The award, a special
plaque, and an honorarium were presented to Nozer at the
Thirtieth Conference on the Design of Experiments in Army
Research, Development and Testing, held at the New Mexico State
University on October 17-19, 1984.

The citation for Nozer's award is:

"For singular contributions to reliability theory
and life testing methodologies, for professional service
to the statistics community, and for invaluable
assistance in solving several important testing problems
in the Department of Defense."

This award commemorates the late Professor Samuel S. Wilks of
Princeton University who is a model of achievement in the
scientific community. Professor Wilks, who initiated this series
of Army Conferences, was very active in research, consulting, and
professional service until his untimely death in 1964. He left a
tradition of excellence.

Nozer Singpurwalla is a credit to his profession and to the
George Washington University. The previous winners include the
names:  Robert E. Bechhofer, Herbert A. David, and Bernard
Harris. On behalf of the Army Mathematics Steering Committee, I
offer my sincerest congratulations.

Sincerely,


Jagdish Chandra
Director
Mathematical Sciences Division

October 31, 1984

Mathematical Sciences Division

Professor Henry Solomon, Dean
Graduate School of Arts and Sciences
The George Washington University
Washington, DC  20052

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Director
Mathematical Sciences Division

October 31, 1984

Mathematical Sciences Division

Professor H. W. Lilliefors
Chairman
Statistics Department
The George Washington University
Washington, DC  20052

Dear Professor Lilliefors:

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Jagdish Chandra
Director
Mathematical Sciences Division

*Laumer*

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**THE
GEORGE
WASHINGTON
UNIVERSITY**


*School of Engineering and Applied Science* / *Washington, D.C. 20052*


*Department of
Operations Research
(202) 676-6084*

Serial 19482
November 6, 1984


Dr. Jagdish Chandra
Director
Mathematical Sciences Division
U.S. Army Research Office
P.O. Box 12211
Research Triangle Park, NC 27709-2211

Dear Jag:

    I was delighted to receive your letter of October
31, informing us of Nozer's selection for the 1984 Wilks
Award. We are, indeed, proud of Nozer. His industry,
creativity, and productivity are among our most cherished
resources. His contributions to the Department, School and
University are most highly valued. Further, he is extremely
stimulating to work with, constantly thinking of innovative
ideas, and a true scholar. We are very pleased and
appreciative that the Army and the Statistics Community
also recognize these qualities.

My very best regards,

Donald Gross
Professor &
   Chairman


copy: Dean Harold Liebowitz


*The School's Centennial Year, October 1, 1884 - October 1, 1984*

# THE GEORGE WASHINGTON UNIVERSITY
## INTERDEPARTMENTAL MEMORANDUM

School of Engineering and Applied Science

Serial 19505
13 November 1984

*Bob:*
*This is the stuff*
*our dept. sent out*
*to the "GW Report"*
*Thanks.*
*Nozer*

To:     Jane Lingo, Assistant Director
        News and Public Affairs

From:   Robin Meader
        Department of Operations Research

Re:     Item for "GW Report"

NOZER D. SINGPURWALLA, professor of operations
research and of statistics, was selected as recipient of
the 1984 Wilks Award for Contributions to Statistical
Methodologies in Army Research, Development and Testing.
The citation for the award reads:

*of The George*
*Washington University*

> "For singular contributions to reliability theory
> and life testing methodologies, for professional
> service to the statistics community, and for
> invaluable assistance in solving several important
> testing problems in the Department of Defense."

This award was bestowed by the Army Mathematics Steering
Committee.

        Please call me on x7527 if further information
is required.  Thank you!


rm

**THE
GEORGE
WASHINGTON
UNIVERSITY**

*School of Engineering and Applied Science / Washington, D.C. 20052*

*Department of
Operations Research
(202) 676-6084*

Serial 19502
13 November 1984

Drs. Jagdish Chandra and
  Robert Launer
Mathematical Sciences Division
U.S. Army Research Office
P. O. Box 12211
Research Triangle Park, North Carolina 27709-2211

Dear Jag and Bob:

I would like to express my deep appreciation to both
of you for all your efforts in making it possible for me
to receive the 1984 Wilks Award. I was very pleased to
receive the award and the honorarium, but I particularly
cherish the Army Mathematics Steering Committee's recognition
of my contributions to reliability and life testing.

I would like to state by way of this letter, that
without the support from the Mathematics Division of the Army
Research Office, it would not have been possible for me to
earn this award. I must emphasize, however, that by support
I do have in mind the opportunity afforded by your office
to interact with the various Army agencies on meaningful and
challenging problems, many of which have led to publications;
the lack of interference and scientific freedom which enables
one to pursue new and untried avenues of research; and the
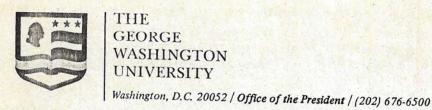stimulation provided by an interface of the above two.

The Army Research Office has directly contributed to
the growth and development of my professional career, and for
this I wish to express my thanks and appreciation to you
both, your colleagues, and your office.

I am looking forward to our continuing relationships
and interactions on new avenues and scientific opportunities.

Yours sincerely,

*Nozer*

Nozer D. Singpurwalla

rm

THE
GEORGE
WASHINGTON
UNIVERSITY

Washington, D.C. 20052 / *Office of the President* / (202) 676-6500

November 30, 1984

Mr. Robert E. Weigle
Director, U.S. Army Research Office
P. O. Box 12211
Research Triangle Park, North Carolina  27709

Dear Director Weigle:

Many thanks for your good letter of October 25 in which you
make note of the work of Professor Singpurwalla which brought the
Wilks Award to him.  Needless to add, all of us at The George
Washington University take pride in this recognition and share
in the reflected attention which such an award brings.

Many thanks for bringing this to my attention,

Sincerely,

Lloyd H. Elliott

cc:  Professor Nozer D. Singpurwalla

December 14, 1984

Mathematical Sciences Division

Editor, AMSTAT News
American Statistical Association
806 15th Street, N.W.
Washington, D. C.  20005

Dear Editorial Staff:

An article announcing Nozer Singpurwalla, Fellow of ASA and
Professor at George Washington University as the winner of the
1984 Army Wilks Award is enclosed.  Please consider this for
publication in the next issue of AMSTAT News.  A photograph is
attached.

Thank you for your consideration.

Sincerely,


Robert L. Launer
Associate Director
Mathematical Sciences Division


Enclosures

Singpurwalla Receives Army Wilks Award


Nozer D. Sinpurwalla was awarded the Wilks Award for contributions to Statistical Methodologies in Army Research, Development and Testing. The presentation was made at the 30th Annual Army Design of Experiments Conference which was hosted by the Army White Sands Missile Range and held at the New Mexico State University on October 17-19, 1984. The citation reads "for singular contributions to reliability theory and life testing methodologies, for professional service to the statistics community, and for invaluable assistance in solving several important testing problems in the Department of Defense."

Singpurwalla is a fellow of ASA and IMS, and a member of the ISI. He received his Ph.D. from New York University and is currently Professor of operations research and statistics at the George Washington University.