

Hommage to
Prof. Gene H. Golub
1932 – 2007

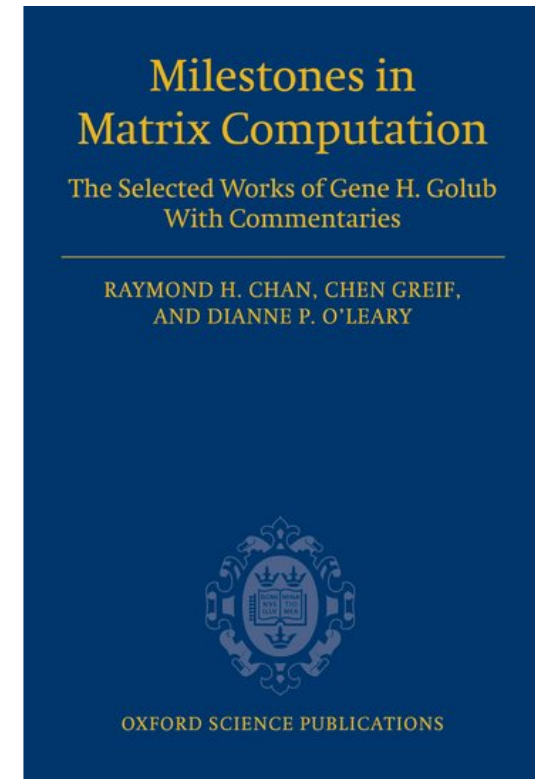
Walter Gander, ETH

Golub Memorial Day HKBU
25 February, 2017

10 Years Ago: March 30, 2007, Gene's 75 Anniversary Celebration



happy Gene!
at the banquet in Stanford



Gene's birthday present
jubilee edition of
selected papers

*last slide of my talk at
75 birthday celebration*

Dear Gene

many thanks for all
you did and still do
for the NA-family

Happy Birthday!

Good Health and
Many More Happy
Years!



However, November 16, 2007

Gene passed away



Honorary Degree One day later, Sat Nov 17, 2007

Gene would have become a Dr. hc. of ETH

Die Eidgenössische Technische Hochschule verleiht mit dieser
Urkunde

Prof. Gene H. Golub, Stanford

in Anerkennung seiner fundamentalen Beiträge zu numerischen Algorithmen der linearen Algebra sowie zur Förderung der neuen Disziplin Computational Science die Würde eines Doktors der technischen Wissenschaften ehrenhalber.

Feb 24, 2008: Looking for Gene's grave at
Shalom Memorial Funeral Home Chicago



Grave at Shalom Memorial Funeral Home



(photo Lek-Heng Lim, temporary plate had been replaced)



Gene about aging January 1985, Gene's last year with his mother.

Gene's 60th Birthday 1992



Gene's family: brother Alvin, sister-in-law Shirley, nephew Neal

Scientific Legacy

Jack Dongarra, Dianne O'Leary, WG prepared 2007 a nomination of Gene for the Turing Award:

- **Pioneer and leader in numerical analysis.** Published over 175 journal articles in the area of matrix computations
- Coauthored 17 books. Bestseller is **Matrix Computations**, with Charles van Loan. ISI Web of Science over 11,000, Google Scholar over 14,000 citations.
- Fundamental contributions to **numerical algorithms and software:** iterative methods for large linear systems of equations, large eigenvalue problems, least squares problems, matrix moments and quadrature methods.
- Most famous contribution is to the computation and application of the **singular value decomposition (SVD)**, the “Swiss Army knife” of numerical computation (Originally Posted by Dianne O'Leary!).

Gene the Teacher

- Supervised 28 Ph.D. students, many now leaders in the field.
- Developed SCCM, the Scientific Computing and Computational Mathematics Program.
- Great mentor to many younger colleagues around the world.
- His matchmaking is responsible for many research collaborations.
- Loved his students, discovered and supported young talents.
- Similar stories for many of us:
 - career starts at Stanford visiting Gene, or
 - Gene discovers a new talent, or
 - Gene proposes topic to work on, or
 - Gene attends a conference and invites you to visit Stanford

Gene With His Students Spring 2007 in Stanford



Tape Letter 1978 about teaching

Gene and the NA-community

- developed Stanford as a center for numerical analysis
- set up a server 1983 for simplifying e-mail addresses:
na.lastname@su-score
- “The NA-NET originated at Stanford University by Gene Golub”
(Jack Dongarra)
Also the origin of NA-Digest and netlib
- President of SIAM 1985-86:
 - founded SIAM Journal on Scientific Computing and SIAM Journal on Matrix Analysis and Applications
 - founder of ICIAM (International Council for Industrial and Applied Mathematics)

Dinners and Parties

Gene loved people

- After the weekly numerical seminar, there was always a **cheese-and-wine party** at Gene's house
- Gene loved **Chinese food**
- He generously **invited friends** to special restaurants
- He **loved parties**

some examples follow

Greens in San Francisco 1984



Walter and Heidi Gander, Gene, Voy and Gio Wiederhold, former secretary

August 1 Party (1984) (Swiss National Day)



Gene, Werner Stuetzle, Andreas Buja

Party in May 2006



Dinner at Gene's Spring 2007



Another Party at Gene's House



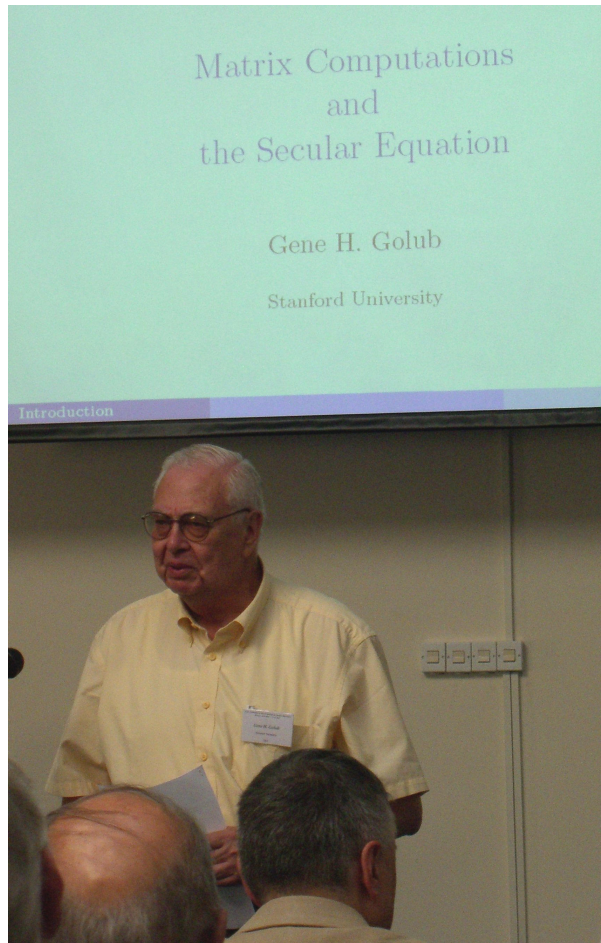
Party 2007

Travels, Meeting, Conferences: Gene a Scientific Globetrotter!

Example: 2007 (assembled from e-mails with Gene, incomplete list . . .)

- March: big **birthday celebration** in Stanford
- 7 April to 23 September: **sabbatical in Oxford**
- 2 June flight to **Tel-Aviv**, Israel
- 25–29 June **Dundee Numerical Analysis** Conference, invited speaker
- 3–7 July **Delft/Amsterdam**
- 17 July **ICIAM** in Zurich.
- 23–27 July Second International Conference on Matrix Methods and Operator Equations, **Moscow**
- 9 August back in Oxford
- August - Sept 3: **Greece**
- 23 September: back in Stanford
- November 2-5 invited speaker at the 3rd East Asia SIAM Conference, Xiamen University + short visit in **Hong Kong**
- November 9 back in Stanford
- 14–20 November **planned visit in Zurich . . .**

Moscow July 22–28, 2007



Conference on Matrix Methods
and Operator Equations

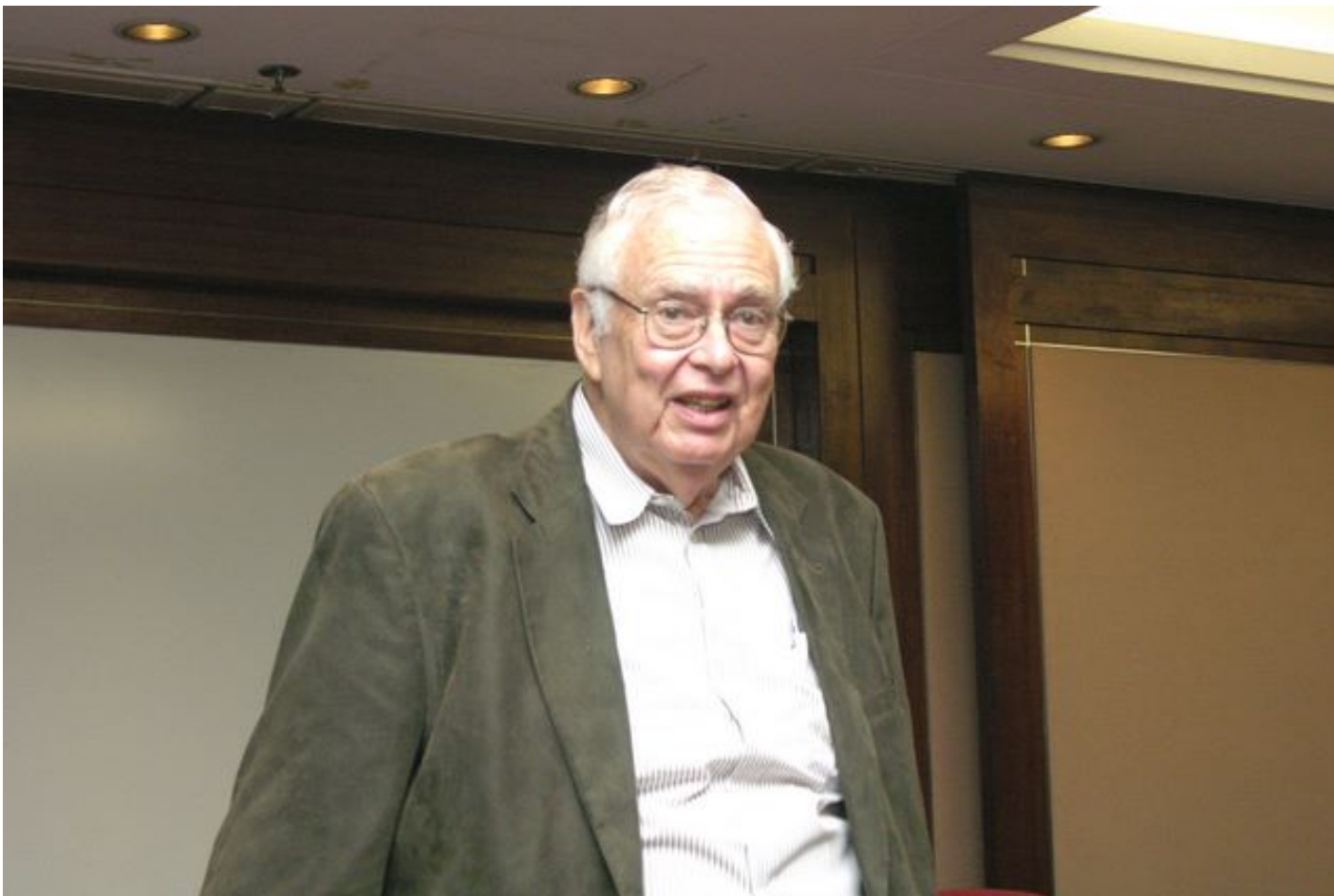


Gene with former student
Dmitry Belogolovsky

Gene and Eugene Tyrtysnikov, July Moscow 2007



Hong Kong October 2007



Last words of Gene to Heidi on Wed Nov 14, 2007

We have to keep our spirits up