Upcoming Conferences and Workshops
Information Retrieval by Matrix Methods on Supercomputer Infrastructures, Tsukuba, Japan, June 1-4, 2010........................................3
19th International Workshop on Matrices and Statistics, Shanghai, China, June 5-8, 2010.................................................................3
4th Annual International Conference on Mathematics and Statistics, Athens, Greece, June 14-17, 2010..................................................3
Gene Golub SIAM Summer School on Numerical Linear Algebra, Brindisi, Italy, June 7-18, 2010..............................................................5
Coimbra Meeting on 0-1 Matrix Theory and Related Topics, Coimbra, Portugal, June 17-19, 2010.................................................................5
16th ILAS Conference, Pisa, Italy, June 21-25, 2010..................................................6
10th WONRA Workshop on Numerical Ranges and Numerical Radii, Krakow, Poland, June 27-29, 2010.....................................................7
5th Workshop on Matrices and Operator (MAO 2010), Shanxi, China, July 12-15, 2001..............................................................7
9th China Matrix Theory and Applications International Conference, Shanghai, China, July 18-22, 2010...........................................8
16th Graduate Student Modeling Workshop, Raleigh, NC, US, July 19-27, 2010..................................................9
International Conference on Recent Trends in Graph Theory and Combinatorics, Cochin, India, Aug. 12-15, 2010.................................11
6th International Workshop on the Numerical Solution of Markov Chains (NSMC 2010), Williamsburg, VA, US, Sept. 16-17, 2010...11
8th International Conference of Numerical Analysis and Applied Mathematics, Rhodes, Greece, Sept. 19-25, 2010..............................11
International Conference on Algebra (ICA 2010), Yogyakarta, Indonesia, Oct. 7-10, 2010..............................................................12
1st Joint SMM-CAIMS-SIAM Meeting, Oaxaca, Mexico, Dec. 8-10, 2010..............................................................12
MAT TRIAD 2011..............................................................12
Other Upcoming Conferences of Interest...............................................................13

Reports on Conferences and Workshops
EPSICON 2010, Kerala, India, Jan, 4-6, 2010..............................................................14
Innovative and Effective Ways to Teach Linear Algebra, January 16, 2010..............................................................14
Ed. Note: Slides from history talks about numerical linear algebra..............................................................14

Obituaries
Ky Fan, September 19, 1914 – March 22, 2010, by Fuzhen Zhang..............................................................15
More Memories and Special Events to Honor Ky Fan..............................................................17
M.J.C. Gover, by A.M. Byrne..............................................................17

Honors and Awards
Thomas Kailath Wins BBVA Foundation Frontiers of Knowledge Award..............................................................18
Medal of Honor to Biswa Datta – Presented at EPSICON 2010..............................................................19

Contents continued on page 2
Articles
Eduard Weyr and Linear Algebra, by Jindřich Bečvář ................................................................. 20
The History of Linear Algebra in Israel – A Personal View, by Abraham Berman................................. 22

Book Reviews
Linear Algebra in Action, by Harry Dym; review by Douglas Farenick .................................................. 25
Introductory Combinatorics, 5th ed., by Richard Brualdi; review by Jeffrey Stuart................................. 27

New Books
Numerical Linear Algebra and Applications, 2nd ed., Biswa Nath Datta .................................................. 28
Matrices, Moments and Quadrature, Gene H. Golub and Gerard Mérant .................................................. 28
A State Space Approach to Canonical Factorization With Applications, H Bart, I. Gohberg, M.A. Kaashoek, and A.C.M. Ran .................................................. 28
Matrix Partial Orders, Shorted Operators and Applications, Sujit Kumar Mitra, P. Bhimasandaram, and Saroj B. Malik .................................................. 29
Ed. Note: List of books of interest to linear algebraists is available on the ILAS website ................................. 29

News About Journals
The Electronic Journal of Linear Algebra (ELA). ......................................................................................... 29
Special Issue of Linear and Multilinear Algebra on Quantum Information Science ...................................... 29
Special Issue of Linear Algebra and Its Applications, in Honor of Jose Dias da Silva ........................................ 30
International Journal of Combinatorics...................................................................................................... 30
Oriental Journal of Mathematics (OJM) ........................................................................................................ 30
Journal of Algebra, Number Theory: Advances and Applications (JANTAA) .............................................. 31
JP Journal of Algebra, Number Theory and Applications (JPANTA) .......................................................... 31
ISST Journal of Mathematics and Computing Systems (IJMCS) ................................................................. 31

ILAS News
Report on the ILAS Program Review ........................................................................................................ 32
New ILAS Officers ........................................................................................................................................ 33
Call for Proposals for ILAS Lecturers at Non-ILAS Meetings ................................................................ 33
ILAS Members are SIAM Officers and New Fellows .................................................................................. 33
Send News for IMAGE Issue 45 by October 1, 2010 ................................................................................. 34

Open Positions
Tenure Track Positions Available at Umeå University, Sweden .............................................................. 34

IMAGE Problem Corner: Old Problems, Most With Solutions
Problem 43-1: Characterization of EP Matrices ......................................................................................... 36
Problem 43-2: Square Roots of (Skew-)Involutory Matrices ..................................................................... 37
Problem 43-3: Reconstructing a Positive Semidefinite Matrix ................................................................. 37
Problem 43-4: A Trace Inequality for Positive Semidefinite Matrices ..................................................... 40
Problem 43-5: The Matrix Equation $YTY = Y$ ...................................................................................... 42
Problem 43-6: Matrix Similarity ................................................................................................................ 42
Problem 43-7: Three Positive Definite Matrices ....................................................................................... 43

IMAGE Problem Corner: New Problems
Problem 44-1: Constrained Characterization of Hermitianness .................................................................. 44
Problem 44-2: Sum of Entries of Inverses of Submatrices ........................................................................ 44
Problem 44-3: Curiously Commuting Vectors ......................................................................................... 44
Problem 44-4: Square-nilpotent Matrix .................................................................................................... 44
Problem 44-5: Matrix Congruence .......................................................................................................... 44
Problem 44-6: Unitary Matrix Sum .......................................................................................................... 44
Problem 44-7: Real Diagonal Entries ...................................................................................................... 44