MAFELAP 2006 PROGRAMME – Tue 13 – Fri 16 June 2006 –Brief version

TUE 0845–0930: Registration in the the foyer of the Howell building

TUE 0930–0940: Opening: Vice Chancellor, **Chris Jenks**

Chair: **H. T. Banks**

TUE 0940–1030
Dynamic data-driven finite element models of laser treatment of prostate cancer
J. Tinsley Oden

TUE 1030–1100: COFFEE in H004 (Howell building)

TUE 1100–1145
Survey on Convergence of Adaptive Finite Element Methods
Carsten Carstensen

TUE 1145–1230
A Synthesis of A Posteriori Error Estimation Techniques for Conforming, Non-Conforming and Discontinuous Galerkin Finite Element Methods
Mark Ainsworth

TUE 1230–1400: LUNCH in the Newton/Mead/Cavendish Rooms in the Hamilton Centre (Refectory)

Time	A: H001 **Geoscience** Michael Edwards and Mary Wheeler	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Pattern Formation** Matthias Winter	D: LC068 **PML** R. Rodríguez and A. Bermúdez	E: LC267 **Maxwell's Equations** Daniele Boffi and Leszek Demkowicz	F: LC268 **Reliability** Carsten Carstensen and Stefan Funken	G: LC215 **Hybrid Decomposition** Ulrich Langer, Barbara Wohlmuth and Alex Klawonn
TU 1400	geophysics Yotov	bem Hsiao	pattern Wathen	pml Diaz	maxwell Pasciak	reliability Stevenson	hybriddecomp Heinrich
TU 1425	geophysics Edwards	bem Meddahi	pattern Wei	pml Bramble	maxwell Ciarlet, Jr	reliability Dörfler	hybriddecomp Steinbach
TU 1450	geophysics Christie	bem Domínguez	pattern Winter	pml Legendre	maxwell Dauge	reliability Siebert	hybriddecomp Discacciati
TU 1515	geophysics Jaffré	bem Stephan	pattern Norbury	pml Monk	maxwell Gastaldi	reliability Veeser	hybriddecomp Scheichl

TUE 1540–1610: TEA in H004 (Howell building)

Time	A: H001 **Geoscience** Michael Edwards and Mary Wheeler	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Fully Nonlinear Systems** Klaus Böhmer and Oleg Davydov	D: LC068 **PML** R. Rodríguez and A. Bermúdez	E: LC267 **Maxwell's Equations** Daniele Boffi and Leszek Demkowicz	F: LC268 **Reliability** Carsten Carstensen and Stefan Funken/ **Parallel session**	G: LC215 **Parallel session** Paul Houston
TU 1610	geophysics Dahle	bem Gwinner	nonlinearpdes Böhmer	pml Petropoulos	maxwell Hiptmair	reliability Bespalov	Parallel Parvizian
TU 1635	geophysics Russell	bem Mikhailov	nonlinearpdes Böhmer	pml Prieto	maxwell Kurtz	Parallel Armentano	Parallel Heisserer
TU 1700	geophysics Arbogast	bem Costabel	nonlinearpdes Davydov	pml Demkowicz	maxwell Christiansen		Parallel Georgoulis

Chair: **John Whiteman**

TUE 1730–1815
ZIENKIEWICZ LECTURE
Coupling Mixed Finite Element and Galerkin Methods for Modeling Geomechanics
Mary Fanett Wheeler

TUE 1900, Buffet in the Newton/Mead/Atrium Rooms, Hamilton Centre (Refectory)

Wednesday 14 June 2006

Time	A: H001 **Geoscience** Michael Edwards and Mary Wheeler/ **Parallel session**	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Resonances** Thorsten Hohage and Joachim Schöberl	D: LC068 **Advanced discretization** Mikhail Shashkov	E: LC267 **Maxwell's Equations** Daniele Boffi and Leszek Demkowicz	F: LC268 **Parallel session / A posteriori** Paul Houston and I. Perugia	G: LC215 **FEM in optimal control** A. Rösch and B. Vexler
WE 0835	geophysics Klie	bem Sloan	resonance Schöberl	advanceddiscret Barlow	maxwell Zaglmayr	Parallel Giani	optimal Tröltzsch
WE 0900	geophysics Sammon	bem Tausch	resonance Koch	advanceddiscret Barth	maxwell Rachowicz	aposteriori Melenk	optimal Casas
WE 0925	geophysics Roberts	bem Sayas	resonance Finger	advanceddiscret Braeunig	maxwell Pardo	aposteriori Wihler	optimal Rösch
WE 0950	Parallel Bruch, Jr.	bem Bespalov	resonance Chinellato	advanceddiscret Després	maxwell Izsák	aposteriori Schötzau	optimal Apel
WE 1015	Parallel Bängtsson	bem Praetorius	resonance Hazard	advanceddiscret Morel	maxwell Ledger	aposteriori Perotto	optimal Hoppe

WED 1040–1110: COFFEE in H004 (Howell building)

Chair: **Mark Ainsworth**

WED 1110–1155
Boundary Element Analysis beyond the Trace Theorem
Norbert Heuer

WED 1155–1240
Domain decomposition methods for multiscale elliptic PDEs
Ivan Graham

WED 1240–1400: LUNCH in the Newton/Mead/Cavendish Rooms in the Hamilton Centre (Refectory)

Time	A: H001 **Advanced discretization** Mikhail Shashkov/ **Parallel session**	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Resonances** Thorsten Hohage and Joachim Schöberl/ **Parallel session**	D: LC068 **DGM** Miloslav Feistauer and Mary Wheeler	E: LC267 **Magnetics** Thomas Schrefl and M. Slodička	F: LC268 **A posteriori** Paul Houston and I. Perugia	G: LC215 **FEM in optimal control** A. Rösch and B. Vexler	H: LC115 **Fast Iterative Solvers** David Silvester
WE 1400	advanceddiscret Scovazzi	bem Langer	resonance Schmidt	dgm Dolejší	magnetics Clemens	aposteriori Sangalli	optimal Becker	fastsolvers Powell
WE 1425	advanceddiscret Shashkov	bem Of	resonance Zschiedrich	dgm Feistauer	magnetics Hamelinck	aposteriori Barth	optimal Liu	fastsolvers Silvester
WE 1450	Parallel Dalík	bem Harbrecht	resonance Nannen	dgm Wheeler	magnetics Hrkac	aposteriori Lovadina	optimal Vexler	fastsolvers Wathen
WE 1515		bem Rech	Parallel Huttunen		magnetics Janíková	aposteriori Tavener		fastsolvers Pasciak

WED 1540–1610: TEA in H004 (Howell building)

Time	A: H001	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Multifield ··· Continuum Biomechanics** Eduard Rohan and B. Markert	D: LC068 **DGM** Miloslav Feistauer and Mary Wheeler	E: LC267 **Magnetics** Thomas Schrefl and M. Slodička	F: LC268 **Conservation laws** Raimund Bürger and Kenneth Karlsen	G: LC215
WE 1610		bem Wrobel	multifield Ehlers	dgm Dawson	magnetics Fangohr	conservation Bachmann	
WE 1635		bem Potthast	multifield Markert	dgm Kučera	magnetics Praetorius	conservation Lévi	
WE 1700		bem Maischak		dgm Sobotíková	magnetics Scholz	conservation Mishra	

Chair: **John Whiteman**

WED 1730–1815
BABUŠKA LECTURE
Will Computational Science Fulfill It's Promises? - Reliability of the Computational Engineering
Ivo Babuška

WED 1900– DINNER in the Newton/Mead/Cavendish Rooms in the Hamilton Centre (Refectory)

Thursday 15 June 2006

Time	A: H001 **Multiscale** Gabriel Barrenechea and Frédéric Valentin	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Contact** Zdenek Dostál and Rolf Krause	D: LC068 **Anisotropic FEM** Gert Lube and Thomas Apel	E: LC267 **Sparse** W. Hackbusch/ Lars Grasedyck/ Steffen Börm	F: LC268 **Time-dependent** Mark Ainsworth and Andris Lasis	G: LC215 **Higher-Order FEMs** Pavel Šolín and Karel Segeth
TH 0835	multiscale Franca	bem Elschner	contact Dostál	anisotropic Cao	sparse Rjasanow	timedep Schötzau	highorder Beuchler
TH 0900	multiscale Mozolevski	bem Steinbach	contact Vondrák	anisotropic Acosta	sparse Dahmen	timedep Hill	highorder Červený
TH 0925	multiscale Loula	bem Sellier	contact Kučera	anisotropic Matthies	sparse Grasedyck	timedep Lakkis	highorder Cools
TH 0950	multiscale Barrenechea	bem Lindner	contact Horák	anisotropic Chen	sparse Baur	timedep Makridakis	highorder Segeth
TH 1015	multiscale Braack	bem Chandler-Wilde	contact Sinwel	anisotropic Creusé		timedep Powell	highorder Šolín

THU 1040–1110: COFFEE in H004 (Howell building)

Chair: **Carsten Carstensen**

THU 1110–1155
Automatic *hp*-Adaptivity for Elliptic and Maxwell Problems
Leszek Demkowicz

THU 1155–1240
Data-sparse boundary and finite element domain decomposition methods
Ulrich Langer

THU 1240–1400: LUNCH in the Newton/Mead/Cavendish Rooms in the Hamilton Centre (Refectory)

Time	A: H001 **Conservation laws** Raimund Bürger and Kenneth Karlsen	B: LC065 **BEM** Norbert Heuer and Ernst Stephan	C: LC067 **Contact** Zdenek Dostál and Rolf Krause	D: LC068 **Anisotropic FEM** Gert Lube and Thomas Apel	E: LC267 **DGM** Miloslav Feistauer and Mary Wheeler/ **DGM, solids,fluids** Beatrice Riviere and Simon Shaw	F: LC268 **Time-dependent** Mark Ainsworth and Andris Lasis	G: LC215 **Higher-Order FEMs** Pavel Šolín and Karel Segeth/ **Parallel session**	H: LC115 **Constrained Optimization** Ronald Hoppe and Michael Hintermüller
TH 1400	conservation Risebro	bem Graham	contact Mihai	anisotropic Micheletti	dgm van der Vegt	timedep Jensen	highorder Sváček	constrainedopti Sachs
TH 1425	conservation Bürger	bem Langdon	contact Fernández	anisotropic Grosman	disgalerkin Ephsteyn	timedep Moore	highorder Vejchodský	constrainedopti Schulz
TH 1450	conservation García	bem Wendland	contact Weiser	anisotropic Lube	disgalerkin Ern	timedep Leykekhman	highorder Zítka	constrainedopti Stadler
TH 1515	conservation Jaffré		contact Dobiáš	anisotropic Huang	disgalerkin Riviere	timedep Lasis	Parallel Franz	constrainedopti Lukáš

THU 1540–1610: TEA in H004 (Howell building)

Time	A: H001 **Conservation laws** Raimund Bürger and Kenneth Karlsen	B: LC065 **Suspension bridges** Pavel Drábek	C: LC067 **Contact** Zdenek Dostál and Rolf Krause	D: LC068 **Anisotropic FEM** Gert Lube and Thomas Apel	E: LC267 **DGM, solids,fluids** Beatrice Riviere and Simon Shaw/ **Parallel session**	F: LC268 **Time-dependent** Mark Ainsworth and Andris Lasis/ **Parallel session**	G: LC215 **Constrained Optimization** Ronald Hoppe and Michael Hintermüller	H: LC115 **Inverse Problems** Roland Potthast
TH 1610	conservation Berres	suspension Drábek	contact Nackenhorst	anisotropic Picasso	disgalerkin Wihler	timedep Larson	constrainedopti Chleboun	inversep Stratis
TH 1635	conservation James	suspension Holubová	contact Krause	anisotropic Schneider	disgalerkin Houston	timedep Demlow	constrainedopti Biros	inversep Ben Hassen
TH 1700	conservation Sepúlveda	suspension Nečesal	contact Vlach	anisotropic Alauzet	disgalerkin Shaw	Parallel Grote	constrainedopti Griesse	inversep Hohage
TH 1725		suspension Čepička			disgalerkin Gamba	Parallel Vohralík	constrainedopti Heinkenschloss	inversep Rapún
TH 1750		suspension Malík			Parallel Tomar	Parallel Mustapha	constrainedopti Leugering	

THU 1915–1945: **Pre-Dinner Sherry, Hub/Atrium, Hamilton Centre**

THU 1945: **Conference Dinner, Newton/Mead/Cavendish Rooms, Hamilton Centre**

Friday 16 June 2006

Time	A: H001 **Multiscale** Gabriel Barrenechea and Frédéric Valentin	B: LC065 **Suspension bridges** Pavel Drábek/ **Parallel session**	C: LC067 **Multifield ··· Continuum Biomechanics** Eduard Rohan and B. Markert	D: LC068 **Inverse Problems** Roland Potthast	E: LC267 **Multiphase** Ivar Aavatsmark and Rainer Helmig / **Parallel session**	F: LC268 **Maximum principles** Michal Křížek	G: LC215 **Sparse** W. Hackbusch/ Lars Grasedyck/ Steffen Börm/ **Parallel session**	H: LC115 **Multi Model** Alexandre Ern and Simona Perotto
FR 0835	multiscale John	suspension Matas	multifield Reese		multiphase Klausen	maximump Vejchodský		
FR 0900	multiscale Blasco	Parallel Parsaei	multifield Rohan	inversep Schulz	multiphase Boffi	maximump Burda	sparse Börm	multimodel Prudhomme
FR 0925	multiscale Rathish Kumar	Parallel Hubbard	multifield Sainte-Marie	inversep Chandler-Wilde	multiphase Aavatsmark	maximump Šístek	sparse Kress	multimodel Braack
FR 0950	multiscale Valentin	Parallel Nasri	multifield Steeb	inversep Potthast	multiphase Ölmann	maximump Křížek	sparse Schneider	multimodel Perotto
FR 1015	multiscale Codina		multifield Wieners	inversep Delbary	Parallel Förster		Parallel Baňas	multimodel Formaggia

FRI 1040–1110: COFFEE in H004 (Howell building)

Chair: **Leszek Demkowicz**

FRI 1110–1155
Fluid structure interaction for incompressible flows
Quarteroni

FRI 1155–1240
Static Two-Player Evasion-Interrogation Games with Uncertainty
H.T. Banks

FRI 1240–1400: LUNCH in the Newton Room in the Hamilton Centre (Refectory)

Time	A: H001 **Parallel session** Hamid Bahai	B: LC065 **New hybrid** Bernardo Cockburn and Jayadeep Gopalakrishnan	C: LC067 **Multifield ··· Continuum Biomechanics** Eduard Rohan and B. Markert/ **Parallel session**	D: LC068
FR 1400	Parallel Frydrych	newhybrid Schötzau	multifield Luke	
FR 1425	Parallel van Loon	newhybrid Sacco	multifield Samuels	
FR 1450	Parallel Vázquez	newhybrid Holst	Parallel Xu	
FR 1515	Parallel Bahtui	newhybrid Gopalakrishnan	Parallel Saurin	
FR 1540	Parallel Hosseini Kordkheili	newhybrid Lazarov	Parallel Kostin	

FRI 1605–1630: TEA in H004 (Howell building)

Times of speakers

FR0925E Aavatsmark
TH0900D Acosta
TU1145I Ainsworth
TH1700D Alauzet
WE0950G Apel
TU1700A Arbogast
TU1635F Armentano
WE1015A Bängtsson
TU1610C Böhmer
TU1635C Böhmer
TH1425A Bürger
FR1015G Baňas
WE1730I Babuška
WE1610F Bachmann
FR1515A Bahtui
FR1155I Banks
WE0835D Barlow
TH0950A Barrenechea
WE0900D Barth
WE1425F Barth
TH0950E Baur
WE1400G Becker
TH1635H Ben Hassen
TH1610A Berres
TU1610F Bespalov
WE0950B Bespalov
TH0835G Beuchler
TH1635G Biros
FR0900A Blasco
FR0900E Boffi
FR0925H Braack
TH1015A Braack
WE0925D Braeunig
TU1425D Bramble
WE0950A Bruch, Jr.
FR0900F Burda
FR0900G Börm
TH0835D Cao
TU1100I Carstensen
WE0900G Casas
FR0925D Chandler-Wilde
TH1015B Chandler-Wilde
TH0950D Chen
WE0950C Chinellato
TH1610G Chleboun
TU1700E Christiansen
TU1450A Christie
TU1425E Ciarlet, Jr
WE1400E Clemens
FR1015A Codina
TH0925G Cools
TU1700B Costabel
TH1015D Creusé
TH1725B Čepička
TH0900G Červený
TU1425F Dörfler
TU1610A Dahle
TH0900E Dahmen
WE1450A Dalík
TU1450E Dauge
TU1700C Davydov
WE1610D Dawson
FR1015D Delbary
TH1110I Demkowicz
TU1700D Demkowicz
TH1635F Demlow
WE0950D Després
TU1400D Diaz
TU1450G Discacciati
TH1515C Dobiáš
WE1400D Dolejší
TU1450B Domínguez
TH0835C Dostál
TH1610B Drábek
TU1425A Edwards
WE1610C Ehlers
TH0835B Elschner
TH1425E Ephsteyn
TH1450E Ern
FR1015E Förster
WE1610E Fangohr
WE1425D Feistauer
TH1425C Fernández
WE0925C Finger
FR1015H Formaggia
TH0835A Franca
TH1515G Franz
FR1400A Frydrych
TH1725E Gamba
TH1450A García
TU1515E Gastaldi
TU1700G Georgoulis
WE0835F Giani
FR1515B Gopalakrishnan
TH1400B Graham
WE1155I Graham
TH0925E Grasedyck
TH1700G Griesse
TH1425D Grosman
TH1700F Grote
TU1610B Gwinner
WE1425E Hamelinck
WE1450B Harbrecht
WE1015C Hazard
TH1725G Heinkenschloss
TU1400G Heinrich
TU1635G Heisserer
WE1110I Heuer
TH0900F Hill
TU1610E Hiptmair
TH1700H Hohage
FR1450B Holst
TH1635B Holubová
WE1015G Hoppe
TH0950C Horák
FR1540A Hosseini Kordkheili
TH1635E Houston
WE1450E Hrkac
TU1400B Hsiao
TH1515D Huang
FR0925B Hubbard
WE1515C Huttunen
WE0950E Izsák
TH1515A Jaffré
TU1515A Jaffré
TH1635A James
WE1515E Janíková
TH1400F Jensen
FR0835A John
FR0950F Křížek
FR0835E Klausen
WE0835A Klie
WE0900C Koch
FR1540C Kostin
TH1635C Krause
FR0925G Kress
WE1635D Kučera
TU1635E Kurtz
TH0925C Kučera
WE1635F Lévi
TH0925F Lakkis
TH1425B Langdon
TH1155I Langer
WE1400B Langer
TH1610F Larson
TH1515F Lasis
FR1540B Lazarov
WE1015E Ledger
TU1450D Legendre
TH1750G Leugering
TH1450F Leykekhman
TH0950B Lindner
WE1425G Liu
FR1425A van Loon
TH0925A Loula
WE1450F Lovadina
TH1450D Lube
TH1515H Lukáš
FR1400C Luke
WE1700B Maischak
TH0950F Makridakis
TH1750B Malík
WE1635C Markert
FR0835B Matas
TH0925D Matthies
TU1425B Meddahi
WE0900F Melenk
TH1400D Micheletti
TH1400C Mihai
TU1635B Mikhailov
WE1700F Mishra
TU1515D Monk
TH1425F Moore
WE1015D Morel
TH0900A Mozolevski
TH1750F Mustapha
TH1610C Nackenhorst
WE1450C Nannen
FR0950B Nasri
TH1700B Nečesal
TU1515C Norbury
TU0940I Oden
WE1425B Of
FR0950E Ölmann
WE0925E Pardo

FR0900B Parsaei
TU1610G Parvizian
TU1400E Pasciak
WE1515H Pasciak
FR0950H Perotto
WE1015F Perotto
TU1610D Petropoulos
TH1610D Picasso
FR0950D Potthast
WE1635B Potthast
TH1015F Powell
WE1400H Powell
WE1015B Praetorius
WE1635E Praetorius
TU1635D Prieto
FR0900H Prudhomme
FR1110I Quarteroni
WE0925G Rösch
WE0900E Rachowicz
TH1725H Rapún
FR0925A Rathish Kumar
WE1515B Rech
FR0835C Reese
TH1400A Risebro
TH1515E Riviere
TH0835E Rjasanow
WE0925A Roberts
FR0900C Rohan
TU1635A Russell
FR0925F Šístek
FR1425B Sacco
TH1400H Sachs
FR0925C Sainte-Marie
WE0900A Sammon
FR1425C Samuels
WE1400F Sangalli
FR1515C Saurin
WE0925B Sayas
WE0835C Schöberl
FR1400B Schötzau
TH0835F Schötzau
WE0950F Schötzau
TU1515G Scheichl
WE1400C Schmidt
FR0950G Schneider
TH1635D Schneider
WE1700E Scholz
FR0900D Schulz
TH1425H Schulz
WE1400A Scovazzi
TH0950G Segeth
TH0925B Sellier
TH1700A Sepúlveda
WE1425A Shashkov
TH1700E Shaw
TU1450F Siebert
WE1425H Silvester
TH1015C Sinwel
WE0835B Sloan
WE1700D Sobotíková
TH1450H Stadler
FR0950C Steeb
TH0900B Steinbach
TU1425G Steinbach
TU1515B Stephan
TU1400F Stevenson
TH1610H Stratis
TH1400G Sváček
TH1015G Šolín
WE0900B Tausch
WE1515F Tavener
TH1750E Tomar
WE0835G Tröltzsch
FR1450A Vázquez
FR0950A Valentin
TU1515F Veeser
TH1400E van der Vegt
FR0835F Vejchodský
TH1425G Vejchodský
WE1450G Vexler
TH1700C Vlach
TH1725F Vohralík
TH0900C Vondrák
TU1400C Wathen
WE1450H Wathen
TH1450C Weiser
TU1425C Wei
TH1450B Wendland
TU1730I Wheeler
WE1450D Wheeler
FR1015C Wieners
TH1610E Wihler
WE0925F Wihler
TU1450C Winter
WE1610B Wrobel
FR1450C Xu
TU1400A Yotov
TH1450G Zítka
WE0835E Zaglmayr
WE1425C Zschiedrich