

21st EUROPEAN CRYSTALLOGRAPHIC MEETING

DURBAN, SOUTH AFRICA, 24-29 AUGUST 2003

Second Announcement -- Call for papers

Main Conference Information ([website: www.sacrs.org.za/ecm21](http://www.sacrs.org.za/ecm21))



You are cordially invited to attend ECM-21 in Durban

ECM-21 will be held 1 km from the beachfront at the International Convention Centre (ICC) in Durban, in the heart of the Zulu kingdom, Kwazulu-Natal. For the first time an ECM will convene in South Africa -- and indeed Africa. The South African currency (ZAR; South African Rand; 1 Euro ca. ZAR9) strongly favours tourism and the conference fees are modest. Participants should at worst not pay more than for a typical ECA meeting at a European destination. Interested participants are encouraged to contact [Conference Call](mailto:Conference.Call@yebo.co.za) (confcall@yebo.co.za) or [André Roodt](mailto:Andre.Roodt@rau.ac.za) (aroo@rau.ac.za).

Organising Committee

André Roodt (Chairman), RAU, Johannesburg
Dave Billing, WITS, Johannesburg
Demi Levendis, WITS, Johannesburg
Thomas auf der Heyde, TWR, Johannesburg
Susan Bourne, UCT, Cape Town
Luigi R. Nassimbeni, UCT, Cape Town

Jan Dillen, US, Stellenbosch
Gert J. Kruger, RAU, Johannesburg
Jan C.A. Boeyens, UP, Pretoria
Johan de Villiers, UP, Pretoria
Gert Kruger, UN, Durban
Paul Boucher, CSIR, Pretoria

Åke Oskarsson, LU, Lund, Sweden
Jacek Groshowski, JU Krakow, Poland
Claude Lecomte, ECA & UHP Nancy, France
Manuel Fernandes, WITS, Johannesburg
Dave Liles, UP, Pretoria

Programme Committee

Jan Boeyens (Chairman), South Africa
Paul Beurskens, Netherlands
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Johan de Villiers, South Africa
Eleanor Dobson, United Kingdom
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Ted Janssen, Netherlands
Mikhail Kovalchuk, Russia
Gert J. Kruger, South Africa
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Claude Lecomte, France
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Luigi Nassimbeni, South Africa
Alain Polian, France
Andreas Roodt, South Africa
Trevor Sewell, South Africa
Ton Spek, Netherlands
Abelmalek Thalal, Morocco

Pam Thomas, United Kingdom
Peet van Rooyen, South Africa
Chick Wilson, United Kingdom
Andrew Venter, South Africa
Svetlana Zheludeva, Russia
Xiaodong Zou, China

Weather & Tourist Attractions

Spring starts in South Africa at the end of August, and temperatures are very mild (min/max: 10 - 25 °C) in Durban (subtropical city). Special visits to game parks are planned, as well as normal pre- and post-conference tours that will be available to experience South Africa's wealth of wild-life (& the big FIVE!), plant diversity and mineralogical phenomena. (Further information, see website & below)

Important Note

Late winter / early spring is a very good time of the year to view game. ALL participants will be treated to a one day excursion (Friday 29 Aug) **INCLUDED IN CONFERENCE FEE**, to a Game Park, replacing the normal midweek excursion. Scientific programme will thus run non-stop for four days (25-28 Aug).

Scientific Programme:

(a) Plenary Lectures: Eight sequential lectures by experts covering a wide selection of topics (confirmed, see below).

(b) Micro-symposia & Posters (See Below): The scientific programme is divided in five parallel sessions addressing Five FOCUS AREAS: i.e., [F1] Biological and Macromolecular Crystallography, [F2] Materials and Minerals, [F3] Experimental and Computational Techniques, [F4] Chemical Crystallography, [F5] Special techniques. These Focus Areas will also be covered by **Poster Sessions**.

Abstracts

One page Abstracts in English are invited covering all aspects of crystallography and closely related fields of interest: (i) For micro-symposia and topics see Programme below. (ii) Online submission via website (www.sacrs.org.za/ecm21) -- submission by 31 March 2003. (iii) With submission please indicate under which micro-symposium / topic the Abstract is submitted, e.g., F56 indicates topic of 'Polymorphism' with Chair & co-chair Bernstein & Caira. **Please Note:** Small changes in the programme, dependent on the number of Abstracts received for different micro-symposia, may occur.

Exhibitors

Excellent venue to ensure maximum interaction with delegates & reasonable rates -- information & arrangements based on ECA recommendations via website (www.sacrs.org.za/ecm21). Information: confcall@yebo.co.za

Registration & Accommodation

Electronically -- request documents from conference organisers: confcall@yebo.co.za or, download from website (www.sacrs.org.za/ecm21) **or** fax Registration Form [given below](#).

Travel Arrangements: via Internet.

Booking flights using South African Travel agents will result in significant saving on flights from Europe. The official Travel agent of ECM-21 is ASTRA/ SURE Travel. Block bookings by e.g., student groups, can result in even larger savings. **Detailed Information:** Johan le Roux: Tel. +27-51-4476352; Fax: +27-51-4476665; johanlr.astraho@galileosa.co.za

The Organizing Committee of ECM-21 shall observe the basic policy of nondiscrimination and affirms the rights of scientists throughout the world to adhere or to associate with international scientific activity without restrictions based on nationality, race, color, age, religion, political philosophy, ethnic origin, citizenship, language, or sex, in accordance with the Statutes on the International Council of Scientific Unions. At this meeting (or symposium etc) no barriers will exist which would prevent the participation of bona fide scientists.

Programme:

A. Plenary Lectures

Tom Blundell	Structural biology of multiprotein complexes involved in cell signalling.	Robert McGreevy	Measuring and modelling atomic and magnetic disorder in crystals
Ted Janssen	Quasicrystals	Bill David	Structure determination from powders - crossing the 100-atom threshold.
Emil Makovicky	The wonderful world of crystal structures of sulfosalts	Wim Hol	Drug targets in tropical diseases
Gilberto Artioli	Tools for mineralogical crystallography	Yu. A. Ossipyan	Space materials research. Present status and perspectives

B. Micro-symposia (Chair/co-chair indicated) [NOT ENUMBERING: e.g., F56 indicates 'Polymorphism' Chair/co-chair Bernstein & Caira]

	[F1]: Macromolecular and Biological Crystallography	[F2]: Materials and Minerals	[F3]: Experimental and Computational Techniques	[F4]: Chemical Crystallography	[F5]: Special techniques
1	Crystallisation T. Bergfors / T Unge	New developments in the structure determination of quasicrystals G. Chapuis / W. Steurer	Electron crystallography and real structures S. Hovmöller / I. Dodony	Synergy of experiment and theory in studies of charge, spin and momentum densities P. Becker / C. Gatti	Powder diffraction in applied and industrial mineralogy J. de Villiers / I. Madsen
2	Synchrotron radiation and radiation damage E. Garman / M Weik	Electron crystallography on beam sensitive samples U. Kolb / C. Kübel	High photon energy techniques ?? / P. Suortti	Impact of charge and spin density studies on molecular sciences F.K. Larsen / N. Ghermani	Fast diffraction - high energy and high throughput powder diffraction R. Dinnebier / S. Verryn
3	Structure refinement and analysis ?? / G. Murshudov	Electron crystallography on inorganic materials ?? / M. Gemmi	Grazing angle techniques J Dailant / G. Fragneto	Rooted in nature: compounds -chirality, absolute structure, absolute configuration J. Grochowski / T. Auf der Heyde	Materials for energy storage and the environment L Nazar / ??
4	Atomic resolution C. Jelsch / V. Lamzin	Mineralogical crystallography T. Balic-Zunic / S. Krivovichev	Automatic structure determination: Challenges for the future A.L. Spek / D. Billing	Towards the unification of shared-proton interactions G. Gilli / L. Nassimbeni	Structure determination from powder diffraction data L. McCusker / G.J. Kruger
5	Proton and electron transfer processes M.A. Carrondo / S. Mc Sweeney	Modular aspects of inorganic crystals – in memory of Boris B Zvyagin S. Merlino / M. Nespolo	Can modern programming languages and techniques lead to higher reliability and programmer productivity? L. Cranswick / J. Dillen	Molecular interactions at extreme conditions E. Boldyreva / G. Heame	Joint powder diffraction and non-diffraction techniques K. Shankland / C. Frampton
6	HIV/ AIDS (Infectious diseases) A. Wlodawer / T. Sewell	From minerals to materials science E. Scandale / J. Kreisel	Diffraction image processing and data quality E. Dodson / S. Parsons	Inclusion compounds and intercalates: Structure and application S. Bourne / S. C. de Sanctis	Polymorphism J. Bernstein / M. Caira
7	Large systems A. Yonath / ???	Relaxor ferroelectric materials P. Thomas / ??	Algorithms of the future D. Watkin / S. Urzhumtsev	Structure-properties relationship in molecular crystals C. Wilson / D.C. Levendis	Use of synchrotron and neutron powder diffraction A. Hewat / A. Fitch
8	Enzyme catalysis G. Dodson / R. Hilgenfeld	Charge/orbital ordering in strongly correlated electron systems P. Bordet / A. Guehria- Laidoudi	High resolution X-ray diffraction at new European SR sources M.V. Kovalcuk / B. Capelle	Core chemical crystallography F. Lahoz / J. Rutherford	Indexing powder diffraction patterns: Opportunity for new heuristic and global optimisation methods R. Shirley / C. Rademeyer
9	Transcription and translation A. Liljas / ??	Crystallography in Africa A. Thalal / G. Kamau	Crystallography at extreme conditions: recent results and new developments J.P. Itié / M. Catti	From structural knowledge to chemical reactivity C. Mealli / P.H. van Rooyen	Time resolved spectroscopy ?? / S. Techart
10	Molecular recognition in molecules and macromolecules ?? / C. Kenyon	Perovskites ancient and modern - in memory of Helen D Megaw M. Glazer / P. Boucher	Crystallisation techniques frontier N. Chayen / H Einspahr	Structural applications in coordination complexes A. Roodt / P. Comba	Spectroscopy - an approach to local structure E. Libowitzky / A. Beran

Satellite Meetings: To ensure maximum attendance all aspects of crystallography will be adequately covered by the ECM programme. Only two satellite meetings are scheduled:

- (a) **Neutron Diffraction:** 21-22 August at Centurion/ Pretoria with visits to the Safari-1 research reactor at Pelindaba. Organised by Chick Wilson (C.C.Wilson@rl.ac.uk) & Andrew Venter (amventer@aec.co.za).
 (b) **Indaba4** The fourth in the multidisciplinary **Indaba series** of the Structural Chemistry Commission of the IUCr. This meeting takes place at Skukuza, in the Kruger National Park, 17-22 August 2003 -- Attendance limited to about 120 delegates. Theme for **Indaba4: 'Patterns in Nature'**. Enquiries to Peet van Rooyen: pvrooyen@scientia.up.ac.za: www.sacrs.org.za/indaba4

Workshops: Three workshops are scheduled, **free of charge**, on a first come first serve basis. These will be full-day workshops and will run in parallel on Sunday, 24 Aug 2003. Please reserve place via email to confcall@yebco.co.za -- Further detail on website (An additional workshop or two, based on substantial delegate interest might be included – consult website on regular basis for updated information)

Title and Coordinator

1. Cambridge Structural Database (F Allen: UK; allen@ccdc.cam.ac.uk)
2. Single Crystal and Powder Diffraction Software Workshop (L Cranswick: UK; l.m.d.cranswick@dl.ac.uk)
3. Introduction to Protein Crystallography (E Dobson: UK; ccp4@ysbl.york.ac.uk)

Participants

40
70
40

REGISTRATION FORM

21st European Crystallographic Meeting, Durban, South Africa, 24-29 August 2003

Electronic versions of This Registration Form can be downloaded from the website or requested electronically from Conference Call

Please return this form to the Conference Organiser : CONFERENCE CALLS SOUTH AFRICA Postnet Suite 29, Private Bag X3 Westville, Durban, 3630	Tel: +27312662384 Fax: +27312662380 E-mail: confcall@yebo.co.za	Secretariat use only Reg.No
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PARTICIPANT ATTENDANCE INFORMATION

Note: Please contact your nearest South African Embassy for Visa information. Please provide information as you wish to appear on your badge and in the list of participants. A copy of this **ONEPAGE** registration form should be completed for each active participant. Please complete on your PC or Typewriter or by writing in block letters.

Title: Mr/Ms/Dr/Prof	Family Name/Surname	First Name	
Address:	Present Position	Institution/Organisation	
State:	Phone		
Country:	Fax		
Code:	E-mail address		

ACCOMPANYING PERSON/SPOUSE (Not participating in the meeting)

Family Name/Surname	First Name
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SPECIAL DIETARY REQUIREMENTS: (Please Specify)

Halaal	Vegetarian	Other (please specify)
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SOCIAL FUNCTIONS INCLUDED IN THE REGISTRATION FEE (Please indicate if you will attend the following social functions)

Welcome Cocktail Reception (24/8/03)	Closing Banquet Dinner (28/8/02)	Day Tour to Game Reserve for Safari (29/8/03)
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CAPACITY IN WHICH ATTENDING THE MEETING: (Indicate One)

Full participant	Student	Accompanying Person/Spouse
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REGISTRATION FEES: Prices Quoted in EURO, PER PERSON	Paid on or before 30 April 2003:	After 30 April 2003
1. Participant Registration	310.00	370.00
2. Students	75.00	120.00
3. Accompanying person/spouse	100.00	130.00

Cost includes entrance to sessions, registration pack & bag, refreshment breaks on each day, 2 special evening events/social functions including dinner, day tour to a game reserve including lunch, and transport from official hotel to conference centre and back again each day.

LUNCHES/DINNERS DURING THE CONFERENCE, EXCEPT AT SPECIAL EVENTS, ARE EXCLUDED AND ARE FOR YOUR OWN ACCOUNT.

CANCELLATION NOTICE: 70% of Registration fees will be payable if cancellation is received AFTER 31 July 2003.

REGISTRATION PAYMENT METHOD -- Please indicate

Bank transfer	Cash on Arrival	Credit card on arrival
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To qualify for discounted registration fee, please arrange for direct bank transfer/draft into the Conference account (detail over leaf)

HOTEL RESERVATION REQUEST (Attached is a list of hotels with rates quoted in EURO) - In order to qualify for the discounted rate, all reservation requests must be sent to Conference Call. Accommodation is assigned based on the information furnished on this form on a first-come first-served basis. Credit card information is requested in order to guarantee your reservation, and deductions may be made 5-7 days prior to arrival. If you do not have a credit card, then full prepayment for your hotel reservation will be required 2 weeks prior to arrival and deposited into the conference account. If you do not occupy your room by check-out time of the day following your confirmed check-in date, the room will be released and the non-occupancy night charged to your credit card. Modifications or cancellations must be made in writing to Conference Call SA.

Preferred Hotel: 1 st choice	2 nd choice
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Requirements:	Single Room	Double/Twin Room (2 persons sharing).	If sharing with whom
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Date of Arrival:	August 2003	Date of Departure	August 2003
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HOTEL PAYMENT METHOD -- Please indicate		Bank transfer	Cash on Arrival	Credit card on arrival
CREDIT CARD DETAILS	American Express	VISA	Euro/Mastercard	Diners
CARD NUMBER	EXPIRY MONTH & YEAR	Last 3 digits of card	type of card	

HOLDERS NAME

SIGNATURE

By providing your credit card number and signature, you agree to the cancellation & payment policies for registration fees & accommodation reservations

BANKDETAILSFORDIRECTBANKTRANSFERS/DRAFTS

Name of Account **Conference Call – No 2** Bank **ABSA Bank** Branch **Kingsmead Branch, Cnr Old Fort Road & Stanger Street Durban**
 Account Number **909 169 5059** Branch Code **511 326** Reference Reference: Please use: **YOUR SURNAME AND REGISTRATION NUMBER**

PROOFOFBANKTRANSFERPAYMENTSSHOUDBEFAXEDTO CONFERENCECALLON(+27)312662380
 TOREGISTERFORTHECONFERENCE&BOOKYOURHOTELACCOMMODATION:PLEASEE-MAIL/FAXONLY THE REGISTRATION FORM

HOTELOPTIONSANDSPECIALNEGOTIATEDRATES(FORYOU ROWNACCOUNT)
All rates quoted are in EURO, per person, per night inclusive of Bed & Breakfast & Government Tourism Levy

Name of Hotel	Rating	Description; ICC = Conference Centre	Rate € pp/day bed & breakfast	
			Single	Sharing
Hilton Durban	*****	Upmarket & modern, conveniently next door to the ICC, 1 min walk	94.00	60.00
Royal Hotel Durban	*****	In the City Centre, 1 minute drive from the ICC, 5 star service & facilities	80.00	57.00
Riverside Hotel	****	Upmarket, modern, overlooking River & Sea, 5 minutes drive to ICC.	71.00	55.00
Holiday Inn North Beach	***	Modern hotel, on upmarket North beach overlooking ocean, 5 min drive to ICC	75.00	54.00
City Lodge Durban	***	Limited services, modern hotel, within walking distance from the ICC	63.00	50.00
Tropicana Hotel	***	Full service hotel on South beach, overlooking ocean, 5 min drive from ICC	60.00	48.00
Beach Hotel	**	On Beachfront, older hotel with basic furnishings, 5 minute drive from the ICC	50.00	42.00
Protea Hotel	**	Student accommodation (Four persons sharing large dormitory type room)	--	20.00pp

PAYMENTTERMS&CONDITIONSFORYOURRESERVATION

- Please provide us with credit card details. The full amount payable may be deducted from your card 5-7 days prior to arrival and the reference "Conference Call" will appear on your credit card statement. If this is not acceptable, please advise us and we will make arrangements for your card to be deducted ON ARRIVAL at the hotel for the full amount due. Receipts will be issued at the hotel on your arrival; **OR**
- If you do not have credit card facilities, please arrange for a bank draft/transfer into Conference Call's bank account (details at top of this page). **The full amount payable for your reservation is required 2 weeks prior to arrival.**

HOTEL CANCELLATION POLICY: Hotel Reservations cancelled:

(i) 30 days prior to arrival, **IN WRITING**, will be accepted without penalty. (ii) 16-29 days prior to arrival, will be liable to pay a 25% cancellation penalty of the Total Reservation Amount; (iii) 0-15 days prior to arrival, will be liable to pay a 100% cancellation penalty of the Total Reservation Amount.

NOTES: RATES MAY INCREASE BY EURO 5.00 PER PERSON, PER NIGHT, PENDING FOREIGN EXCHANGE FLUCTUATIONS

(i) All rates quoted are PER PERSON, PER NIGHT, including bed and breakfast; (ii) Attention should be drawn to the hotel descriptions when making accommodation selection; (iii) No personal cheques accepted; (iv) Rates negotiated and nett; no commissionable to other travel or booking agents.

AIRPORT TRANSFERS (for your own account): €20.00 (euro) per person, return airport transfer (airport-hotel-airport)

If you require this service, please e-mail/fax your flight arrival and flight departure times IN DURBAN, to Conference Call as soon as they are available.

PLEASE USE YOUR CONFERENCE REGISTRATION NUMBER AS A REFERENCE WHEN CORRESPONDING WITH CONFERENCE CALL'S OFFICES. THIS WILL BE COMMUNICATED TO YOU ON RECEIPT OF THE COMPLETED REGISTRATION & ACCOMMODATION BOOKING FORM.

PRE/POST OR ACCOMPANYING PERSONS TOURS (for your own account): For further information or to make a tour reservation please contact DHM Tours directly on dhmtours@iafrica.com or visit their website on www.dhmtours.co.za. A description of recommended tours will be listed on the conference website shortly – some examples are given below – **Typical Prices in Euro; i.e: € 22 = 22 euro.** Tour bookings can also be done on ARRIVAL at the Tours desk

- Durban City Tour – Half day; € 22 pp. A day filled with excitement and adventure! An opportunity to discover South Africa's holiday Mecca.
- Durban Wildlife Tour – 09h00 to 15h00; € 33 pp (Incl. lunch). Combines tranquility of bird life and the intrigue of the ocean's most awesome predator, the shark.
- Valley of 1000 Hills – Half day; € 29 pp (excludes lunch). Travel inland exploring the majestic and seemingly never-ending rolling hills typical of KwaZulu Natal.
- Midlands Meander – Full day € 59 pp (Incl. lunch). Art studios, country hotels, tea gardens, pottery, weaving workshops, via spectacular Howick Falls.
- Hluhluwe Game Reserve – Full day € 75 pp. (Fully inclusive of open game drive and lunch). Travel along the scenic North Coast towards beautiful Hluhluwe/Umfolozo Game Reserve, famed for its rhino conservation and also a haven for the "Big 5".

Longer Tours: For further detail contact DHM Tours.

- Drakensberg Experience - 2 Day / 1 Night, € 170 pp (Fully inclusive).
- The "Big 5" Wildlife Tour - 1 night / 2 days, € 190 pp (Fully inclusive).
- The "Big 5" Wildlife Tour - 2 night / 3 days, € 295 pp (Fully inclusive).
- Kruger Swazi Wild Life - 6 nights / 7 days; € 790 pp sharing.
- Cape Experience - 3 nights / 4 days; € 510 pp. Does not incl. flight (approx € 220 pp).

WE LOOK FORWARD TO WELCOMING YOU IN DURBAN - AGATE WAY TO SOUTHERN AFRICA

Since being sighted by Vasco da Gama in 1497, Durban's natural harbour has given birth to a vibrant, go-ahead and ever changing city. Apart from having the busiest harbour in Africa, Durban is served by its **own international airport** only 15 minutes from its Central Business District. Durban is an ideal base from which to explore the beauty and splendours of Southern Africa. Within two hours you could be on a safari at one of the country's renowned **game reserves** - home to some of the world's rarest and most exotic species - or you could be in the **fairest Cape**. Ninety minutes by road and you could be hiking or trout fishing in the magnificent **Drakensberg**. **Other options:** a day or two away could put you at the origins of man in the **Sterkfontein Caves**, or in the midst of a miraculous flower transformation in the **Namaqualand Desert**. You could be etching into memory the glorious sunsets and camp fires of the **Kruger and other National Parks in South Africa**, visit neighbouring Zimbabwe to witness the majesty of the **Victoria Falls**, game parks of **Botswana** or **Skeleton Coast in Namibia**.

There are many faces to Durban - city of great beauty and cultural diversity where you can witness the Dance of the Virgins, a Zulu war dance and attend a performance of the ballet or Opera all in the same day. The only constant is the famous South African weather - and Durban can serve up the best of it, with an average of **320 sunny days** a year. A surfer's paradise and international holiday mecca. Mile upon mile of unspoiled, sun-soaked beaches, bronzed life guards and bikini beauties. Seagulls, pelicans and exotic birds. Colourful rickshas, beautiful parks, sidewalk cafes and restaurants. Here architecture encapsulates the diverse histories and cultures of the people. Graceful Victorian buildings, exotic temples and dignified mosques all stand side by side.