

2004 BRISBANE \* AUSTRALIA

International  
Biology  
Olympiad



# IBO 2004 GENERAL REPORT



Australian Government  
Department of Education,  
Science and Training



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA



Griffith  
UNIVERSITY





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Acknowledgements

We would sincerely like to thank the following organisations which have contributed to IBO2004

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Ms Melissa Falla (IBO2004 Event Manager)  
Ms Pia Pantges (IBO2004 Administrative Assistant)

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Associate Professor Peter O'Donoghue (University of Queensland)  
Mr David Clyde (University of Queensland)  
Professor Adrian Herington (Queensland University of Technology)  
Professor Frank Clarke (Griffith University)  
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Associate Professor Peter O'Donoghue (Co-chief Examiner)  
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Ms Madonna Stevenson (IBO2004)



# Thank You from the Management Committee

The 15th International Biology Olympiad (IBO2004) Management Committee is indebted to many individuals, organisations and institutions for making the event such an outstanding success.

Firstly, we would like to thank the host organisations, for without their leadership and commitment the event would not have been possible at all. Our Partners and Sponsors each played a key role with financial, operational, promotional and in-kind support, as did each of our Supporters. We thank the Brisbane City Council, the Queensland Government and the Australian Government for their support and cooperation.

An outstanding feature of IBO2004 was the volunteer staff who gave freely of their time and energy as members of the Examinations Committee, as Team and Jury Guides, or involved in the many diverse aspects of conducting such an international event.

The focus of an International Biology Olympiad (IBO), "The Olympic Games for Biology" is, however, always the Competitors and their Team Leaders. Representatives from 47 nations participated in IBO2004, with a record number of 5 observing nations being admitted to the IBO Competition for future years.

To each of the 159 Competitors, from 40 nations, our warmest congratulations for having won the opportunity to represent your families, schools and nations so commendably in every way and for competing in a fair and spirited manner at the Olympiad.

During IBO2004, our guests had the opportunity to experience what Brisbane, Queensland and Australia has to offer, from the splendour and wonder of our natural resources and unique plant and animal species through to the educational, scientific and tourist resources and facilities.

Whilst IBO2004 was the first to be held in the southern hemisphere, it was also the first IBO to have a number of associated and supporting events. The ENERGEX Biology Olympiad Online Competition involved nearly 7,000 Australian secondary school students. The Telstra IBO2004 Public Lecture featuring Baroness Susan Greenfield attracted a near capacity crowd of 300 members of the public and substantial national awareness, whilst the Official Post-IBO Tour had guests from 4 nations travel by chartered coach for 6 days from Brisbane to Cairns, stopping at key tourist attractions and sites of scientific interest.

Hosting IBO2004 was an enormous challenge, and one for which the governing body of the IBO commended the organizers and the people involved for setting a new benchmark and an impeccable standard. Again we thank all involved including the IBO community for allowing us the privilege of being associated with such an important event for the world's young biologists and future scientific leaders.

*IBO2004 Management Committee*





# Official Ceremonies & Supporting Events

IBO2004 featured a number of ceremonies and for the first time a series of support events and activities.

## ENERGEX Biology Olympiad Online (E-BIOL)

Every secondary school in Australia was invited to nominate students in Years 9 and 10 and/or Years 11 and 12 to be involved in the first interactive online examination of its kind in Australia. Nearly 7,000 students competed with each of the winners being presented with a prize at the Opening Ceremony of IBO2004. The winners were: Senior Category, Nicola Steward, Toorak College in Victoria; Intermediate Category, Harry Yan, James Ruse Agricultural High School in New South Wales; School Participation Award, Clairvaux MacKillop College in Queensland; Chair's Award for Excellence, Perry Reiter, Scotch College in Victoria.

## Opening Ceremony

The opening ceremony was held at the UQ Centre at The University of Queensland. Associate Professor Mary Garson, Chair of IBO2004, welcomed the IBO community and representatives of the organisations supporting the event to Australia. Key representatives who participated in the Ceremony were Mr Michael Johnson, Federal Member for Ryan representing the Australian Government Minister for Education, Science and Training, and Ms Anna Bligh, Queensland Government Minister for Education and the Arts. The formal proceedings were followed by a theatrical performance that symbolised the development, culture and biodiversity of Australia following which Mr Johnson officially opened IBO2004.

## Civic Reception

The Lord Mayor of Brisbane, the Honourable Campbell Newman and the Brisbane City Council hosted a reception for members of the IBO2004 Jury (Team Leaders) and representatives of the host, partner and supporting organisations. The Speakers were the Lord Mayor, Professor Alan Mackay-Sim, 2003 Queensland of the year and 2002 Australian Biology Olympiad Team Member Ms Sarah Jones. Each speaker presented their perspective on the relevance and benefits of the IBO. Guests were then treated to drinks and light refreshments and were entertained by local musicians.

## Telstra IBO2004 Public Lecture featuring Baroness Susan Greenfield

Baroness Susan Greenfield is a world renowned neuroscientist and author with a great commitment to promoting the study and teaching of biology. Baroness Greenfield was the International Ambassador for IBO2004 and gave a public lecture on 'Minds of the Future' at Griffith University. The lecture was attended by a near capacity audience of 300 people from the general community along with members of the IBO2004 Jury.

## Closing Ceremony

Over 500 invited guests attended the closing ceremony which included the participation of key representatives from organisations supporting IBO2004 and the Governor of Queensland, Ms Quentin Bryce AC. After some noteworthy speeches, the main activity of the closing ceremony was conducted – with 16 Gold, 32 Silver and 48 Bronze medals being awarded. Guests were treated to a cultural performance reflecting Australia and a video montage of the IBO2004 highlights. At the conclusion of the ceremony, the IBO Cup was presented by Associate Professor Mary Garson, Chair of IBO2004 to Professor Jindong Zhao, Director of IBO2005, to be hosted in Beijing, China.

## Post-IBO2004 Tour

The Official Post-IBO Tour travelled by chartered coach from Brisbane to Cairns over three days, stopping along the way to visit the many and varied tourist and biological attractions. The group then spent three days in Cairns undertaking local activities including scuba diving on the Barrier Reef and an excursion to Cape Tribulation. The tour had 20 guests from 4 nations, and prompted many other delegations to visit and explore other parts of Queensland and Australia on longer or shorter stays. It seems the success of the Tour has prompted future IBO hosts to consider a similar feature.





# Examinations Report

The primary activity of an IBO is the examinations. For the first time in the history of the IBO, two co-Chief Examiners were appointed to manage the complex and difficult tasks of writing, defending, conducting and marking examinations for the world's best biology students. The Chief Examiners were Professor John de Jersey and Associate Professor Peter O'Donoghue from the University of Queensland. They were joined by 13 other academics from the host organisations to form the IB02004 Examinations Committee.

## IBO Jury

The IBO Jury was hosted by Griffith University, an outstanding venue for the often intense and protracted debates that take place in setting such high level examinations. A total of 137 members of the IBO Jury represented the competing and observing nations.

## Security and Exam Integrity

During the periods in which the IBO Jury were debating the content of the examinations, all members were requested to hand in any electronic devices that were capable of communication and all people leaving the room were escorted by an IB02004 representative. There were no breaches of security or exam integrity.

## Practical Examinations

For the first time at an IBO, the Practical Examinations were themed around the hierarchical structure of biology, determined by the Examinations Committee to be the most effective way to evaluate the knowledge and skill of the Competitors, and reflecting the way in which biology is typically studied and researched. The four practical examinations were:

1. Molecular Biology
2. Cellular Biology
3. Organismal Biology
4. Ecology

The Practical Examinations were held in four different laboratories at the University of Queensland in the Schools of Molecular and Microbial Sciences and Integrative Biology. One Competitor from each nation attempted one of the four examinations before rotating to the next. Each examination was 90 minutes long, with two held in the morning of Tuesday 13 July and two in the afternoon. Competitors in each practical group wore a colour-coded laboratory coat specific to their group, thereby being immediately recognisable throughout the Examinations.

IB02004 used machine readable answer sheets for the Practical Examinations, requiring all Competitors to provide their answers in a consistent format and removing problems of interpretation associated with different languages and writing styles.

## Theory Examinations

Two 2.5 hour examinations were sat by the Competitors at Queensland University of Technology on Thursday 15 July. Theory questions were clustered into groups of 4 or 5 questions using biological themes.

All participating countries were requested to provide theoretical questions for consideration by the IB02004 Examinations Committee, and we are pleased to report that most countries did so. Approximately 20% of the final content of the Theory Examinations was carefully selected from submitted questions, the remainder being authored by members of the Examinations Committee.

## Results

A strong correlation was found between the score achieved in each of the four Practical Examinations with the total score achieved by candidates for the Practical Examinations. A similarly strong correlation was found between the score for each of the two Theoretical Examinations and the total theory score. Strong correlation was also found between the total marks achieved for the Practical Examinations and that of the Theoretical Examinations.

Based on the ranking of the total score achieved by each Competitor, a total of 16 Gold, 32 Silver and 48 Bronze medals were awarded in accordance with the rules of the IBO. All independent observers representing the IBO were satisfied with the examination process and supervision undertaken by the hosts of IB02004.

## Conclusion

All Competitors at IB02004 are to be congratulated for their conduct and the spirit they demonstrated throughout the event. They have each represented their nation to the highest level. Special congratulations are extended to all medal winners and to the overall winner Tse Yang Lim from Singapore.





# Social & Cultural Activities

There is no doubt that the examinations are at the forefront of the minds of the Competitors and Jury Members during an IBO, but between the challenging schedule and demanding tasks of setting, sitting and marking the examinations, participants in IBO2004 enjoyed the opportunity to build friendships with colleagues from all around the world. The city of Brisbane, Queensland, Australia was privileged to extend warm hospitality to its guests by showing its unique and interesting natural resources and features, tourist attractions and scientific facilities. A schedule of social and cultural activities was organised for both the IBO Jury and Competitors, and each was a great success.

## Brisbane River Cruise and City Sights Tour – Tuesday

After the Jury had worked through much of the previous night, they were given the opportunity to see the 'River City' on a lunch cruise on the Brisbane River followed by a guided bus tour of the city, including a trip to the summit of Mt Coot-tha for a spectacular panorama of the city.

## Australiana Dinner – Tuesday

Following the sitting of the Practical Examinations, the Competitors and the Jury were given the opportunity to experience 'Australiana' at its best at the Australian Woolshed, a short distance from Brisbane. IBO2004 guests were given a sheep shearing demonstration followed by a hearty Australian barbecue dinner. They were then entertained with classic Australian songs and bush dancing.

## Australian Zoo - Wednesday

While the Jury worked through the day and night setting the Theory Examinations, the Competitors had the chance to get up close to Australia's unique flora and fauna at Australia Zoo.

## Queensland Dinner – Thursday

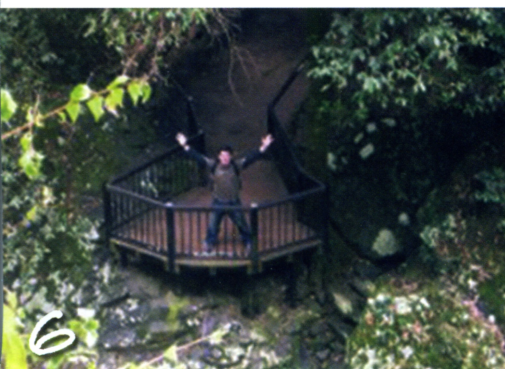
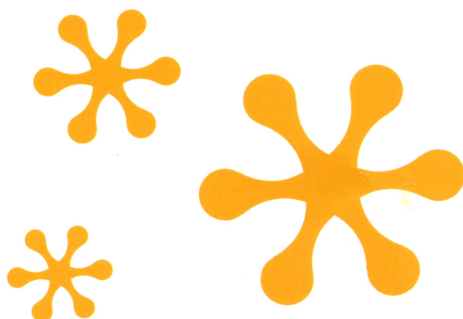
Now that all of the exams had been set by the Jury and sat by the Competitors, it was time to really relax. IBO2004 guests were given exclusive access to the Sea World theme park on Queensland's Gold Coast. A special entertainment program was prepared, which included an insight into the training and care given to dolphins at the theme park, along with a viewing of the sharks and other aquatic animals in residence. Guests were also given the opportunity to ride on the 'Corkscrew' rollercoaster and 'Bermuda Triangle' ride. The evening of entertainment was concluded with a ski show and pyrotechnics exhibition.

## Green and Gold Tour – Friday

As the Jury checked the marking of the Practical and Theoretical Examinations, the Competitors experienced the rainforests of the Gold Coast hinterland (green) followed by a visit to the wide sandy beaches of the Gold Coast (gold). All participants had a great day experiencing the flora, fauna and geophysical features of this picturesque part of Australia.

## Farewell Dinner – Saturday

After the excitement of the Closing Ceremony, participants in IBO2004 and representatives of supporting organisations, came together for a grand dinner at the Hilton Hotel in Brisbane City. It was a night to celebrate the formation of many wonderful friendships during which the dance floor was filled by young and old alike.







**Hoja Aparte**  
Año XIV - Número 420  
Viernes 30 de Julio de 2004  
Publicación de la Coordinación de Comunicación Institucional - Universidad Nica

## La delegación argentina obtuvo una medalla de plata y dos de bronce



La representación argentina en Australia. José Ravella, de San Luis; Manuel Ignacio Sotgioco, de Luján; y Juan Carlos... de Córdoba; Fabiana... de Mendoza; y... de Tucumán.



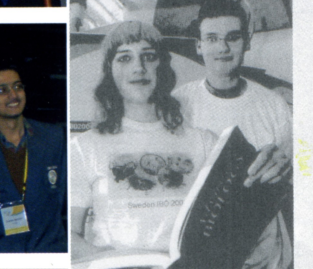
A better Life  
Health, education & science



## World's best science students tackle zoo

**Overseas visitors leave with fond memories of our wildlife and culture**  
By MELINDA HARRIS  
When competing in the International Biology Olympiad, students from 120 countries around the world gathered in Brisbane, Australia, for a week of practical exams and theory. The trip to Australia was not just a break from competition after five hours of practical exams, but a chance to experience the world's top biology students' culture and natural environment. The trip to Australia was not just a break from competition after five hours of practical exams, but a chance to experience the world's top biology students' culture and natural environment. The trip to Australia was not just a break from competition after five hours of practical exams, but a chance to experience the world's top biology students' culture and natural environment.

**US students head to Biology Olympiad**  
Four of the USA's top high school biology students have been selected to represent the nation in the International Biology Olympiad July 12-18 in Brisbane, Australia. The team, including 2003 Olympiad medalist Kay Aull of T. Jefferson High School in Henric, Va., was selected through a four-tier process that began with an exam taken by high school students nationwide with a two-week camp at George Mason University in Fairfax, Va., for the state's finalists. This year the USA is sending two students to the Olympiad, which is held in Brisbane, Australia. Joining Aull in Brisbane: ZeNan Chan of the University of Virginia and Clinton Hansen, of the University of Virginia.



## Top-class teens in biological battle

**Amanda Watt**  
THE exam questions are enough to make your brain hurt. But the judges of the International Biology Olympiad, which kicked off in Brisbane yesterday, have no choice but to make them tough considering the calibre of competitors. The tournament is the equivalent of the Olympic Games for student biology and attracts the sharpest teenage science minds in the world. Groups of four students from 42 countries will be hammered with pages of mind-bending biology questions this week in a battle for top billing. Two days are set aside for exams. The rest of the program consists of study time and sight-seeing. Competitors from Germany, Finland, Sweden and the United Kingdom flew into Brisbane on Friday to begin their preparations. Swedish team member Hedvig Olander, 18, said when the competition was over she planned to spend a year working on an Australian farm. She finished her final year of school last month. Ms Olander said her dream was to live in Africa and study gorillas. "In Sweden the competition is seen as a great achievement but you don't gain anything from it, you don't get any free studies from university so it's just a good experience. "We are told to go here and it's a good country, get to know the people. "It's not that important that we get great results." The University of Queensland, Queensland University of Technology, Griffith University and the Rio Tinto Australian Science Olympiads are co-hosting the event, with sponsorship from the State Government. It is the first time Australia has hosted the event in its 15-year history. Australia is represented this year by its first all-girl team made up of students from Melbourne and Sydney. The Australian teams typically rank in the top 10 placings - last year they came seventh overall.





T-RANK	FIRST NAME	LAST NAME	COUNTRY	T-SCORE	PRAC T-SCORE	THEORY T-SCORE	TOTAL T-SCORE
<b>GOLD MEDAL</b>							
1	Tse Yang	Lim	Singapore	72.86	65.75	138.61	
2	Yuh-Yah	Liu	Chinese Taipei	75.25	62.48	137.73	
3	Katherine	Aull	USA	71.62	65.56	137.17	
4	Kwee Boon, Brandon	Seah	Singapore	73.31	63.47	136.78	
5	Bradford	Hargreaves	USA	73.27	63.45	136.71	
6	James	Attwater	United Kingdom	68.82	64.37	133.19	
7	Clinton	Hansen	USA	68.25	62.75	131.00	
8	Volodymyr	Boldovsky	Ukraine	67.77	61.52	129.29	
9	Worawan	Limpitikul	Thailand	64.64	63.16	127.80	
10	Gregory	Dickens	United Kingdom	72.02	53.81	125.83	
11	Hyuk Dal	Jung	Korea	61.36	63.69	125.05	
12	Zhou	Teng	China	60.21	64.05	124.26	
13	Yang	Luhan	China	61.48	62.67	124.15	
14	Jan	Petasch	Germany	64.28	58.53	122.81	
15	ZeNan	Chang	USA	59.33	63.17	122.50	
16	Yu Jing	Wang	Canada	63.49	58.56	122.04	

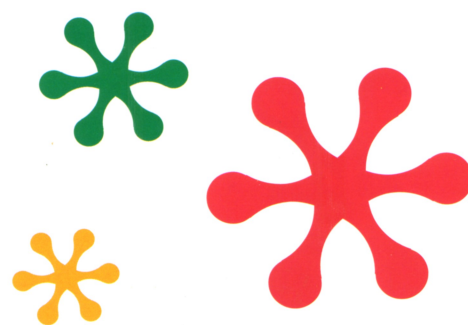
T-RANK	FIRST NAME	LAST NAME	COUNTRY	T-SCORE	PRAC T-SCORE	THEORY T-SCORE	TOTAL T-SCORE
<b>SILVER MEDAL</b>							
17	Anna	Wang	Australia	63.13	58.42	121.55	
18	Warakorn	Kulalert	Thailand	59.93	61.30	121.23	
19	Michael	Carratt	United Kingdom	59.83	61.14	120.97	
20	Evgeny	Mymrikov	Russia	61.55	59.35	120.90	
21	Niranjan Shiwaji	Khaire	India	63.97	56.92	120.89	
22	Li-Hsiang	Yen	Chinese Taipei	58.88	61.44	120.32	
23	Hyun Seok	An	Korea	55.07	64.75	119.82	
24	Shu-Wei	Chou	Chinese Taipei	59.64	59.69	119.33	
25	Patricia	Illing	Australia	62.84	56.20	119.04	
26	Vera	Dietterle	Germany	60.19	56.69	116.88	
27	Shih-Lung	Chao	Chinese Taipei	58.35	58.35	116.70	
28	Jitchai	Kayankarnavee	Thailand	57.56	58.85	116.41	
29	Li	Jingjing	China	55.98	60.34	116.32	
30	Richard	Rosch	Germany	61.70	54.60	116.30	
31	Koen	Reijnders	Netherlands	59.21	56.62	115.82	
32	Weixin	Huang	Singapore	57.03	58.69	115.72	
33	Zhang	Hongkang	China	53.35	61.32	114.68	
34	Victoria	Male	United Kingdom	58.78	55.43	114.21	
35	Georgi Kolev	Marinov	Bulgaria	59.90	53.90	113.80	
36	Mohammad Hossein	Amiri	Iran	57.66	56.11	113.77	
37	You-Jin	Lee	Korea	48.31	65.33	113.64	
38	Raghav	Bansal	India	55.19	58.22	113.41	
39	S Mahavir	Agarwal	India	55.98	57.03	113.02	
40	Jon	Reijneveld	Netherlands	59.69	53.04	112.73	
41	Seo Ki	Kim	Korea	50.70	61.86	112.56	
42	Wichsinee	Wibulpolprasert	Thailand	51.03	60.88	111.92	
43	Denis	Reshetov	Russia	57.68	54.15	111.83	
44	Jose	Rovella	Argentina	53.83	57.80	111.63	
45	Dan	Filipescu	Romania	55.62	55.79	111.42	
46	Vishvajit	Singh	Canada	52.30	58.89	111.19	
47	Alisa	Sedghifar	Australia	55.12	56.05	111.18	
48	Tianyi	Zhang	Singapore	55.96	55.04	111.00	

T-RANK	FIRST NAME	LAST NAME	COUNTRY	T-SCORE	PRAC T-SCORE	THEORY T-SCORE	TOTAL T-SCORE
<b>BRONZE MEDAL</b>							
49	Budi	Christanto	Indonesia	53.23	57.37	110.61	
50	Stanislav	Dobrovolskiy	Ukraine	57.49	53.03	110.52	
51	David	Haselbach	Germany	56.13	53.75	109.88	
52	Gabriel	Lundberg	Sweden	59.19	50.23	109.42	
53	Olga	Subernetcaia	Moldova	50.63	58.39	109.02	
54	Manuel Ignacio	Saralegui	Argentina	54.64	54.24	108.88	
55	Ilya	Moskvin	Russia	51.01	57.28	108.29	
56	Aljaz	Majer	Slovenia	54.21	53.82	108.04	
57	Rafael Esaid	Lazo Gomez	Mexico	51.89	54.67	106.56	
58	Gabrielle	Josling	Australia	51.70	54.57	106.27	
59	Filip	Kolá	Czech Republic	52.16	54.07	106.23	
60	Juan Miguel	Royan	Argentina	50.01	56.15	106.16	
61	Jaroslav	Nunvá	Czech Republic	51.11	54.94	106.04	
62	Ekaterina	Pogodina	Russia	51.01	54.94	105.95	
63	Edgars	Fecs	Latvia	56.94	48.82	105.76	
64	Suman	Saurabh	India	47.50	58.22	105.71	
65	Masa	Kusar	Slovenia	51.32	54.20	105.52	
66		Mulyono	Indonesia	48.40	57.04	105.44	
67	Zden k	Janovský	Czech Republic	49.81	55.34	105.15	
68	Seyedeh Nina	Masoom	Iran	51.66	52.82	104.48	
69	Erkan	Yüce	Turkey	48.09	56.37	104.47	
70	Ioan Valentin	Matei	Romania	43.55	60.48	104.03	
71	Erdem	Akkaya	Turkey	48.21	55.54	103.75	
72	Kaloyan Mihaylov	Tsanov	Bulgaria	46.64	57.03	103.66	
73	Alina	Zamoshnikova	Ukraine	48.64	54.68	103.32	
74	Marko	Rintanen	Finland	53.07	49.03	102.10	
75	Irina	Bercan	Romania	50.46	51.61	102.07	
76	Elchin	Asgarov	Azerbaijan	49.93	51.92	101.85	
77	Aliaksandr	Nikitski	Belarus	47.78	54.03	101.81	
78	Laura	Lehtovirta	Finland	54.76	45.64	100.40	
79	Vojtech	Baláz	Slovakia	52.49	47.84	100.34	
80	Petr	Synek	Czech Republic	54.52	45.33	99.85	
81	Eric Jean	De Bast	Belgium	55.07	44.67	99.75	
82	Irena	Junda	Latvia	48.36	51.25	99.61	
83	Lukasz	Banasiak	Poland	45.46	53.89	99.35	
84	Arefeh	Ghodsizadeh	Iran	48.33	50.39	98.73	
85	Domen	Zafred	Slovenia	50.15	48.40	98.55	
86	Hanneke	Vlaming	Netherlands	50.79	47.69	98.49	
87	Güzin	Cakmak	Turkey	41.09	57.30	98.38	
88	Aksana	Miarkulava	Belarus	45.37	52.65	98.02	
89	Joanna	Curry	Ireland	55.70	42.27	97.97	
90	Katarzyna	Machowica	Poland	43.58	53.90	97.48	
91	Aliaksei	Pinchuk	Belarus	46.85	49.70	96.55	
92	Ida	Istinić	Slovenia	51.34	45.17	96.52	
93	Nurlanbek	Duyshev	Kyrgyzstan	42.52	53.99	96.51	
94	Marguerite	Carter	Ireland	56.15	40.11	96.26	
95	Darmiastini		Indonesia	47.47	48.30	95.78	
96	Mykola	Rudnev	Ukraine	45.49	50.06	95.55	

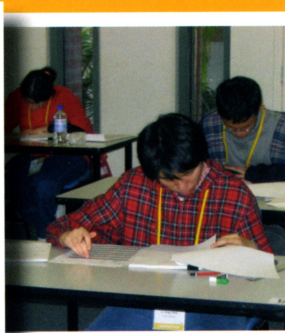


T-RANK	FIRST NAME	LAST NAME	COUNTRY	PRAC T-SCORE	THEORY T-SCORE	TOTAL T-SCORE
<b>PARTICIPATION</b>						
97	Zuzana	Strazovová	Slovakia	46.66	48.16	94.82
98	Pavel	Hrynkevich	Belarus	45.32	49.21	94.53
99	Zane	Paunina	Latvia	50.65	43.71	94.36
100	Piotr	Tymoszuk	Poland	46.16	48.10	94.26
101	Quynh Mai	Trinh	Vietnam	45.97	48.27	94.24
102	Thi Huong Tra	Tran	Vietnam	45.18	49.04	94.21
103	Salla	Vartia	Finland	45.87	48.03	93.90
104	Tomas	Augustin	Slovakia	56.10	37.38	93.48
105	Van Phi	Nguyen	Vietnam	43.03	50.41	93.43
106	Krista	Takkis	Estonia	50.22	42.88	93.10
107	Atanas	Todorov	Switzerland	51.75	41.30	93.05
108	Bektur	Chynaliev	Kyrgyzstan	47.33	45.66	92.99
109	Wan	Kam	Sweden	46.40	45.85	92.24
110	Olivier	Filleul	Belgium	46.11	45.91	92.02
111	Paulina	Jancikova	Slovakia	46.97	44.66	91.63
112	Yara Elena	Sanchez Corrales	Mexico	46.13	45.08	91.22
113	Veronica Laura	Lozano	Argentina	41.61	49.50	91.11
114	Hao	Zhang	Canada	37.34	53.74	91.08
115	Rahel	Sibler	Switzerland	49.05	41.85	90.90
116	Julian	Gonggrijp	Netherlands	45.58	45.14	90.72
117	Vincent	Moeneclaey	Belgium	52.73	37.00	89.73
118	Ihsan Tria	Pramanda	Indonesia	44.36	44.45	88.82
119	Orkhan	Allahverdiyev	Azerbaijan	36.26	52.46	88.72
120	Ben	Cools	Belgium	50.29	38.32	88.61
121	Mustafa	Tosur	Turkey	35.35	53.23	88.59
122	William	Ffrench-O'Carroll	Ireland	46.95	41.42	88.37
123	Florian	Aeschmann	Switzerland	48.60	39.67	88.27
124	Triin	Tekko	Estonia	40.99	47.25	88.24
125	Alan	Kershaw	Ireland	48.36	39.79	88.14
126	Ott	Luuk	Estonia	44.67	42.80	87.47
127	Mihkel	Pajusalu	Estonia	48.02	39.34	87.36
128	Vesela Lyubomirova	Lilova	Bulgaria	41.45	45.19	86.64
129	Nurlan	Mirzamatov	Kyrgyzstan	41.64	44.77	86.41
130	Altay	Badirov	Azerbaijan	36.48	49.72	86.20
131	Tatiana	Chiriac	Moldova	47.59	38.08	85.67
132	Elshad	Hasanov	Azerbaijan	41.02	44.36	85.38
133	Paul-Cristian	Bălănescu	Romania	37.12	48.24	85.36
134	Muhametnazar	Hudaynazarov	Turkmenistan	47.02	38.32	85.33
135	Mika	Mäntysaari	Finland	41.95	43.13	85.08
136	Ali	Zandieh	Iran	37.62	46.68	84.30
137	Nikola Zlatkov	Kolev	Bulgaria	37.14	47.01	84.15
138	Aleksandra	Goluba	Latvia	45.77	38.22	84.00
139	Barbara	Buechel	Switzerland	47.38	34.95	82.32
140	Yunus	Annayev	Turkmenistan	33.56	47.32	80.88
141	Ciro Alberto	Cubillas Ramirez	Mexico	37.22	43.58	80.80
142	Pawel	Hermanowicz	Poland	25.88	52.87	78.76
143	Berdımyrat	Yazhanov	Turkmenistan	39.18	38.02	77.20
144	Hedvig Emelie	Olander	Sweden	42.02	33.75	75.78
145	Quang Huy	Nguyen	Vietnam	34.97	39.70	74.67

T-RANK	FIRST NAME	LAST NAME	COUNTRY	PRAC T-SCORE	THEORY T-SCORE	TOTAL T-SCORE
<b>PARTICIPATION</b>						
146	Jacob	Eriksson	Sweden	40.78	33.64	74.42
147	Andrei	Tárus	Moldova	32.70	39.23	71.93
148	Maria	Andreou	Cyprus	36.04	34.19	70.24
149	Christina	Kyprianou	Cyprus	38.77	31.11	69.88
150	Cristina	Chicu	Moldova	34.92	34.52	69.44
151	Nelson Alexander	Arreaga Tovar	Mexico	35.61	32.83	68.44
152	Saltanat	Mambetova	Kyrgyzstan	37.22	29.55	66.77
153	Mariam	Aljumaie	Kuwait	32.84	31.33	64.18
154	Anwar	Alsayegh	Kuwait	34.63	22.82	57.45
155	Farah	Behbehani	Kuwait	32.60	23.14	55.74
156	Giorgos	Loizides	Cyprus	34.56	20.67	55.24
157	Yiolanda	Herodotou	Cyprus	24.90	28.73	53.63
158	Shatha	Alkaram	Kuwait	29.02	22.01	51.03
159	Shirmyrat	Kichiyev	Turkmenistan	24.55	18.40	42.94







## onder dankzij biolog



Wants ook in de biologische verleg het voor de Russische hoop erg gesmeerd: Yuri Cordy eindigde tweede - van oorspronkelijk 1100 deelnemers uit Vlaanderen - en nog naar Duitsland. Niet hetzelfde als Australië natuurlijk, maar je bent toch eens weg bij. Wat ik in Duitsland zal mogen doen? Een beetje vooruitreden volgens, maar vooral euh... het staatscriterium van Kiel bepalen zeker?!"

Geen tiersten

## EDUCATION



## Biology's best brains teste

MORE than 250 of the world's sharpest high school biology students put their brains to the test at the University of Queensland last week. The event attracted the sub took university-level theoretical and practical exams throughout the week. Australia was represented by an all-girl team from Sydney and Melbourne. It is the first time the Southern Hemisphere has staged an event in its 15-year history. Queensland University of Technology, Griffith University and the Rio Tinto Australia Science Olympiads were



## Dissecting the

A STAR student from Elsternwick will be flying the flag for Australia this week at an international science competition. Gabrielle Jostling, 17, is part of an all-girl team of four currently in Brisbane taking part in the 2004 International Biology Olympiad. After a week of practice, the girls are competing against teams from 53 countries, answering theoretical questions and taking on practical tests, including dissections. Gabrielle, who attends MacRobertson Girls' High School in Melbourne, said she was looking forward to the challenge as well as meeting people from all over the world. "I'm actually thinking about going to the Great Barrier Reef and other outings to inspire team spirit among the all-girl team representing Australia. It's really important that we support each other," Ms Wang said. "I worked to fill in my knowledge. I did not want to be at home sweating. I'm actually enjoying my work experience. I think enjoying my work experience is a good idea with friends. Wang enjoys science. She may not be where she is today. After recently working experience she thinks she would like to be a criminal lawyer. Her team members are Sedghifar, Gabrielle Jostling

## Olympics of the

AUSTRALIA'S top four biology students were awarded three silver medals and a bronze medal at the International Biology Olympiad in Brisbane on Saturday. The so-called Olympics of the Mind was staged over a week, with a total of 16 gold medals, 32 silver and 48 bronze awarded to some of the 163 students from 42 countries in the event. Australia's all-girl team of Alisa Sedghifar from University High School, Patricia Illing from Carey Baptist Grammar School and Anna Wang from Sydney Girls High School took out a silver medal each. Gabrielle Jostling from MacRobertson Girls High School won a bronze medal. All competitors were ranked based on their individual scores in a theoretical and practical test. Gold medals were awarded to the top 10 per cent of students and bronze medals were awarded to the next 20 per cent of students. Event chairwoman Mary Garson said the tournament showcased future elite scientists, with Australia it had



## up before world biology mar

applicants, male and female, for the top 25 candidates for the first International Biology Olympiad - initiated by the United Nations Educational, Scientific and Cultural Organization (UNESCO) in 1990. Australia usus the top 10, coming year, with one gold, one bronze, and the International Olympiad in chemistry, physics and information also run. Australia this year's compact in Korea, Germany. "Australia may progress on the spot is also earning a for its scientific Colin Taylor, the top of Rio Tinto Olympiads, which of the team