



Christ Church  
Grammar School

## **Building Good Men**

### **Principal's Report**

**September 2016**

#### **Attachments**

- Media Clips

**Old Boys' Association  
Parents' Association**

## **1. Update on Strategic Plan Implementation**

### **CIS visit**

**(for noting)**

Ray Davis, Associate Director of School Support & Evaluation, visited CCGS on 23 to 24 August as part of our membership application. The visit was part of the process to assess our application to join 720 high performing schools from 112 countries as a member of CIS. Ray met with and interviewed a broad range of CCGS staff and concentrated his questions around the:

- Quality of student learning
- Quality of pedagogy
- Support systems for students
- Culture and environment at CCGS
- Governance and management
- Future strategic direction and initiative

Ray will issue the School with a written report and at the final meeting he did provide the following verbal observations regarding CCGS:

- The School has a wonderful supportive culture
- CCGS delivers all aspects of boys' schooling well
- Academically it is a high performing school which offers a board educational offering
- CCGS is well positioned to undertake accreditation with CIS

Ray also visited MLC during this week to assess their membership application.

### **CIS School membership**

**(for noting)**

I have received notification from CIS that CCGS has been granted full CIS School Membership. CCGS is now part of a global community of high achieving schools and along with MLC is the first school in Western Australia with membership. This is a wonderful achievement for our School community. Our next step will be a self-study process which is the beginning of our journey towards gaining accreditation.

### **Strategic Plan lunches**

**(for noting)**

At the beginning of this term, I invited staff to meet with me in regard to the School's progress with the Strategic Plan and to provide an opportunity for to ask questions. We held seven sessions over a lunch time period in the first few weeks of term and overall had a good number of staff in attendance and great feedback on the Strategic Plan.

## **2. Risk and Compliance Update**

### **Stranger danger**

**(for noting)**

Channel 7 recently ran a story regarding a stranger approaching two CCGS boys in Dalkeith. The students felt uneasy and ran back to the family home. Fortunately our staff have been working with our students regarding "stranger danger". We have spoken with staff and students about the danger that could exist.

## **3. Matters for Noting**

### **Staffing**

**(for noting)**

#### **Appointments**

- Sally McMormick: Computer Science Teacher, P/T Term 4
- James Morgan: Prep School Classroom Teacher, F/T Term 4
- Adam Hartley: Science Teacher, Semester 1, 2017
- Graham Nolan: Computer Science Teacher, F/T ongoing for 2017
- Robert Dodds: Digital Learning Co-ordinator, F/T ongoing for 2017
- Les Goh: CIS Curriculum Lead, two-year appointment

- Ian Moran: Graphic Designer, P/T ongoing
- Jennifer Gates: Humanities Teacher, P/T ongoing
- Deborah Hill: Alumni Co-ordinator, F/T ongoing
- Claire Molinari: Director of Centre for Excellence, ongoing
- Graeme Wood: Director of Cricket & First X1 Coach
- Michael Ralph: Indigenous Co-ordinator
- Khiem Ly: Residential Year Group Co-ordinator
- Holly Rose: Head of Logistics and Analytics

#### Resignations

- Spina Santini: Data Processing Manager – 5 August 2016

#### **Educational trends**

As discussed in the August council meeting, please see the list below of options available to council members to update and deepen your understanding of global education trends:

- AISWA Briefing the Board Conference
- PD with Executive member of AISWA
- ISCA website

#### **Schools funding**

**(for noting)**

The federal government is planning to move away from the Gonski funding model after next year to tied funding forcing the states to introduce policies, such as screening Year 1 students for phonics and writing skills, in an attempt to lift disappointing test results. Education Minister Simon Birmingham said funding after 2017, when the government commitment to Gonski funding expires, would be tied to improving results. The government want to shift the emphasis from untied funding to specific programs and measures such as the screening of Year 1 children, which it argues are proven to produce results. Senator Birmingham said the assessments would be a "light touch" test designed to identify children who were not picking up the reading skills as quickly as they should.

#### **WA Year 9s defy flat NAPLANs**

**(for noting)**

West Australian Year 9s have been lauded nationally for stand-out success in the latest NAPLAN results, which otherwise contained few good news stories. Federal Education Minister Simon Birmingham used plateauing nationwide results to complain that "despite significant funding growth, we are not getting sufficient improvement in student outcomes". WA Year 9s bettered last year's results and the national average in all five categories - reading, writing, spelling, grammar and punctuation, and numeracy.

#### **CCGS NAPLAN results**

**(for noting)**

The Year 3 cohort is strong and their NAPLAN results were very pleasing. The Year 5 results, however, are more concerning. This is consistent with the Allwell data collected in Year 4. In the Senior School, the results in the various literacy tests, as well as in numeracy, are good. Approximately 18 students will be required to sit the OLNA Maths in Year 1 with approximately 30 students to sit for Reading and approximately 75 to sit the Writing test. Overall, there is a lot to celebrate in the results and staff members involved feel the results vindicate our approach to NAPLAN testing, which ensures students are given the opportunity to become familiar with the tests' format, without any compromises to the overall teaching and learning programs.

#### **Crossing the Fence**

**(for noting)**

As part of our strategic direction and alignment with MLC, I have increased the lines of collaboration between the schools. Next year, girls from MLC and boys from CCGS will participate in 'Crossing the Fence' classes.

**Wealth and good teaching key factors****(for noting)**

Teacher quality and student wealth are overwhelmingly the strongest predictors of student success and could be contributing to the flatlining NAPLAN results. Stephen Dinham, Professor of Instructional Leadership, Melbourne Graduate School of Education, at the University of Melbourne, said increasing variations between rich and poor, well-resourced and impoverished schools, the quality of the teaching workforce and teacher training programs in different universities were all contributing to the plateauing in NAPLAN outcomes. "Teacher quality alongside relative wealth are the biggest factors in academic success at school," Professor Dinham said. "So the biggest and by far the most important factor in succeeding at school is your socio-economic status, while the biggest in-school factor is the quality of teaching." The School's PD program and staff performance standard enables us to ensure we attract and retain high performing staff.

**\$3bn extra but school tests stall****(for noting)**

Despite billions of dollars flowing into schools under the Gonski reforms, the latest results for student tests in literacy and numeracy show standards flat-lining. Scores for the 2016 NAPLAN tests, released today, show no significant gain in any of the subject areas, or any state, with the exception of Year 3 Reading in South Australia. Education Minister Simon Birmingham has demanded action from schools, saying plateauing results are not good enough, given the extra money being spent. He said the federal government had increased education funding by 23.7 per cent since 2013, yet reading scores had increased by just 0.40 per cent since then, writing scores had fallen by 0.20 per cent and numeracy increased by 1.26 per cent. The latest results confirm a trend that writing test scores in high schools have actually worsened since 2011.

**Watchdog gives nod to banning Chinese speakers****(for noting)**

Barring native-speaking Chinese students from enrolling in Chinese as a second language during the VCE is unlikely to be discrimination, Victoria's human rights watchdog has declared. There are concerns students with no Chinese heritage are being deterred from studying the language because of fierce competition from classmates who speak Chinese at home. This has led to just 400 non-Chinese speaking students taking up year 12 Chinese in Australian schools. It is hoped advice from the Victorian Equal Opportunity and Human Rights Commission prompts an overhaul of the state's rules. The commission told the Victorian Curriculum and Assessment Authority that requesting information about languages spoken at students' homes does not constitute discrimination if they could prove the move was reasonable.

**Maths minus boys equals confidence****(for noting)**

The numbers just aren't adding up for girls at co-educational schools. Female students' confidence in maths and science subjects severely lags behind that of boys, according to an OECD study. It seems this is having a profound impact on what they are choosing to study, with figures from the Australian Mathematical Sciences Institute showing only 6.7 per cent of female year 12 students taking advanced mathematics and only 17.5 per cent studying intermediate mathematics. (Participation rates were higher across the board for males.) However, a Melbourne University study has found that girls at single sex schools are more confident in maths than those at co-ed schools.

**OBA events****(for noting)**

Mark Morrissy, Carol and I travelled to Sydney and Melbourne in late August to host evenings with old boys and partners, parents (former, current and future) and friends of Christ Church. The events provided guests with the opportunity to connect with members of the School community, meet me and engage in dialogue regarding the current and future plans for the School. My presentation covered the Strategic Plan, Master Plan and several videos which were well received. There was very good attendance at both events and similar events are currently being planned for 2017.

**Parents' Association****(for noting)**

The PA held their AGM on Wednesday 7 September and elected the following Office Bearers and Committee Members.

- Chair: Karen McQuillan
- Deputy Chair: Stephen Wicks
- Secretary: Fiona McLarty
- Treasurer: Paula Everett
- Boarding Rep: Anita Dickins
- Uniform Shop Rep: Lani Byk
- Events: Jo Hudson
- Prep School Rep: Jill Pellicione
- Senior School Rep: Amanda Kemal

**Committee**

- Con Zempilas
- Ken Everett
- Mary O'Hanlon Creed
- Diane Mason
- Marika Auret
- Sophie Seton-Browne

**World Staff Day****(for noting)**

The PA held a morning tea on Friday 16 September for all staff members to thank them for everything that they do. This was well received by the staff and was also a celebration of our CIS membership.

**Building Good Men Leadership Breakfast Series****(for noting)**

On 14 September we launched the first leadership breakfast event for students from Year 9 to 12. The event was fully subscribed within 24 hours with a wait-list in place. Community members were invited to host one of nine tables and share their own experiences, failures and successes with the aim of providing the boys with an insight into the journey they might need to consider beyond Christ Church. These events will continue in 2017 as we invite community members from a diverse range of backgrounds to share their journeys and wisdom.

**Building Good Men Scholarships****(for noting)**

The name of the General Excellence Scholarships has been changed to Building Good Men Scholarships. Since the name change, the scholarships have gained more traction and we have received more applications than previous years.

**International brochures****(for noting)**


CCGS brochures have been produced in simple and complex Chinese which will be used as promotional collateral for visiting international guests and overseas travel. The brochures provide a snapshot of CCGS and what we can provide to our international students.



# Building Good Men

September 2017

**Years 8 to 11 | Apply now**



**Christ Church  
Grammar School**  
PERTH, WESTERN AUSTRALIA

Closing date for applications is **Friday 2 September 2016.**

For more information and to apply visit [www.ccgswa.edu.au](http://www.ccgswa.edu.au) or call Admissions on (08) 9442 1555



# sweeps awards

■ Stephen Bevis

It was a double whammy of WA success at the annual Helpmann Awards in Sydney last night.

Tim Minchin's *Matilda* The Musical broke all records by winning every one of the 13 categories in which it was nominated at the national stage awards, Australia's answer to the Tony Awards.

And Perth's Barking Gecko Theatre Company repeated last year's success with children's opera *The Rabbits*, when latest show *Bambert's Book of Lost Stories* won best presentation for children.

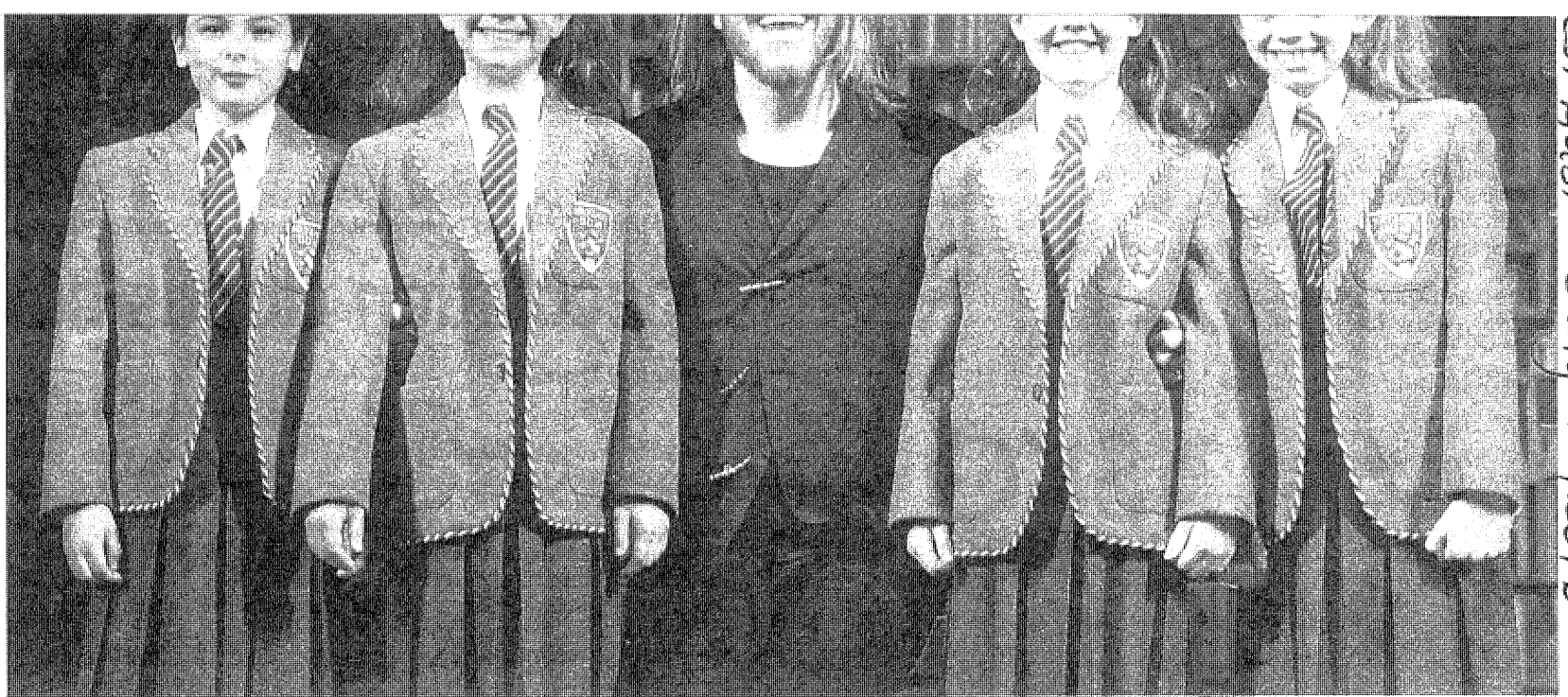
Minchin, who flew in from Los Angeles for the ceremony at Sydney's Lyric Theatre, won best original score for *Matilda*.

The Royal Shakespeare Company co-production, based on Roald Dahl's tale of a schoolgirl who outwits her nasty parents and ogre-like headmistress, heads to Perth's Crown Theatre in February.

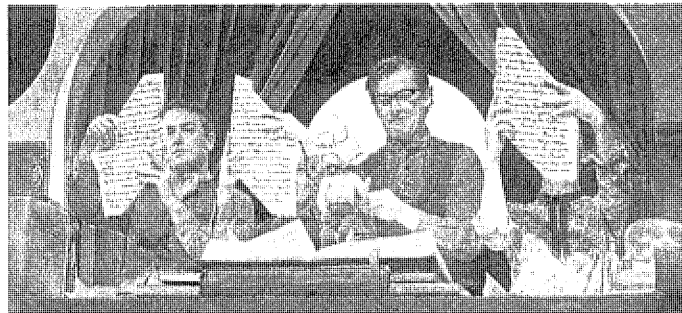
James Millar, a WA Academy of Performing Arts graduate, was best actor in a musical for his marvellously monstrous turn as headmistress Miss Trunchbull.

The best female in a musical award was shared by all eight *Matildas* from the Sydney and Melbourne seasons.

*Matilda* also won best musical, best director for Matthew Warchus, best supporting actor and



Tim Minchin with four of the award-winning *Matildas* from his all-conquering show *Matilda the Musical*. Picture: Getty Images



Barking Gecko's *Bambert's Book of Lost Stories* was a winner.

actress, and awards for music direction, choreography, and lighting, scenic, costuming and sound design.

The awards night included a performance from WA Ballet, which tours to Jakarta next week, and by the casts of *Matilda*, *The Sound of Music*, *Singin' in the Rain* and the Tim Finn musical *Ladies in Black*, which won the best new Australian work award.

Prince won a posthumous award for best international contemporary concert for his *Piano and Microphone* tour just two months before his death in April.

Kate Miller-Heidke's appearance with the Tasmanian Symphony Orchestra was the best Australian contemporary concert.

Perennial acting nominees Cate Blanchett and Richard Roxburgh missed

out to Paula Arundell in best play winner *The Bleeding Tree* and Mark Leonard Winter in *Birdland*. Winter won a second Helpmann as support actor in *King Lear*.

Bangarra Dance Theatre, which wrapped up its Perth season at the weekend, won three awards and its artistic director Stephen Page won a special JC Williamson Award for lifetime achievement. The company tours regional WA in October.

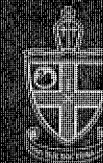
The opera category was dominated by Brisbane Baroque's *Agrippa*, which won four awards.

Tom Ballard won best comedy performer and Michael Griffiths was best cabaret performer.

Sugarland, the Australian Theatre for Young People production recently seen in WA, won best regional touring production.

est Aust July 26/2016





## Christ Church Grammar School

Christ Church Grammar School  
motivates boys to achieve academic  
excellence.

Specialising in early years education  
for boys, our next Preparatory School  
tours are:

**3 August 9.00am**

**25 August 9.00am**

Providing boys with rich academic  
and co-curricular experiences,  
our next Senior School tours are:

**9 August 9.00am**

**31 August 9.00am**

To reserve your place on a tour  
visit the Enrolments page at  
**[www.ccgswa.edu.au](http://www.ccgswa.edu.au)** or  
call 9442 1555.



# UK prize to scientist at Perkins institute

Nedlands medical scientist Kevin Pflieger has won this year's British Pharmacological Society's Novartis Prize.

Associate Professor Pflieger is the head of molecular endocrinology and pharmacology at the Harry Perkins Institute of Medical Research.

He wants to improve the effectiveness of medicines and reduce their side effects, and he won the Novartis Prize for his work on the body receptors targeted by common medicines. Dr Pflieger is also chief scientific adviser to Dimerix.

Now a publicly-listed biotechnology company, Dimerix was originally a private firm spun out from UWA and the Perkins to commercialise technology that Dr Pflieger and his colleagues had developed.

Dr Pflieger and Dr Karl Rosengren, from the University of Queensland, were recently awarded an Australian Research Council Linkage Grant of \$499,000 over three years.

They are the chief investigators of a research project in partnership with the University of Nottingham, BMG Labtech, Promega and Dimerix.

Dimerix is on track to publish early results of clinical trials of its flagship drug therapy, DMX-200, designed to alleviate chronic kidney disease.

The drug's development emerged from research carried out by Dr Pflieger's team.

One in three Australians is at risk of developing chronic kidney disease but fewer than 10% of people know they have it. Symptoms include changes in urination, swelling of legs or



Kevin Pflieger won the Novartis Prize for his work to improve the effectiveness of medicines.

Kidney disease is a global health problem that may lead to kidney failure, cardiovascular disease and premature death.

Dr Pflieger has received many awards, including being named the 2009 WA Young Scientist of the Year.

He will fly to London to receive the Novartis Prize on December 14 at the British Pharmacological Society's an-

Post July 30/2016



**Top talent ...** Performing in the concert at UWA will be, from left, Michael Lukin, Wei Juen Lo, singer Sophie Belton, Allan Hou, Ben Chia and Alex Chua. Photo: Billie Fairclough

## Making great music for a cause

Tickets are selling fast for a concert at UWA by very talented young musicians raising funds for a good cause.

The music will range from Bach to the hits of Chris Brown and proceeds will go to Global Charity Children's Fund Inc (GCCFI), a charity that supports children and families in poor rural communities in China.

The performers include, from left, Michael Lukin, Wei Juen Lo, singer Sophie Belton, Allan Hou, Ben Chia and Alex Chua. School, Sharin Attamimi, Rene Kuan and Emma Jane Shum performing at Backstreet Bach. Redefined clarinet quartet, a piano trio of Alex Chua, Allan Hou and Wei Juen Lo, Michael Lukin, Stephanie Sim, Maxwin Chong and a children's choir.

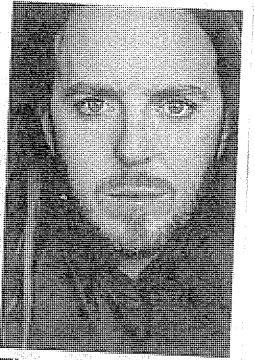
They will take the audience on a journey through modern, jazz and classical music in UWA's

is from 2 to 4pm on Sunday, August 7, and funds raised will provide educational resources and support the schooling of children in China.

Tickets are \$31, \$21 for students and seniors and \$16 for children and can be booked via <https://www.trybooking.com/210038>.

Light refreshments will be

## Community news



**Tim Minchin**

Barking Gecko Theatre Company was awarded Best Presentation for Children for the company's season of *Bambert's Book of Lost Stories*.

The Perth talent continued with a performance by WA

Ballet principal Matt Lehmann and ballet mistress Sandy Delasalle-Scannella of David Dawson's *On the Nature of Daylight* from this year's Ballet at the Quarry season.

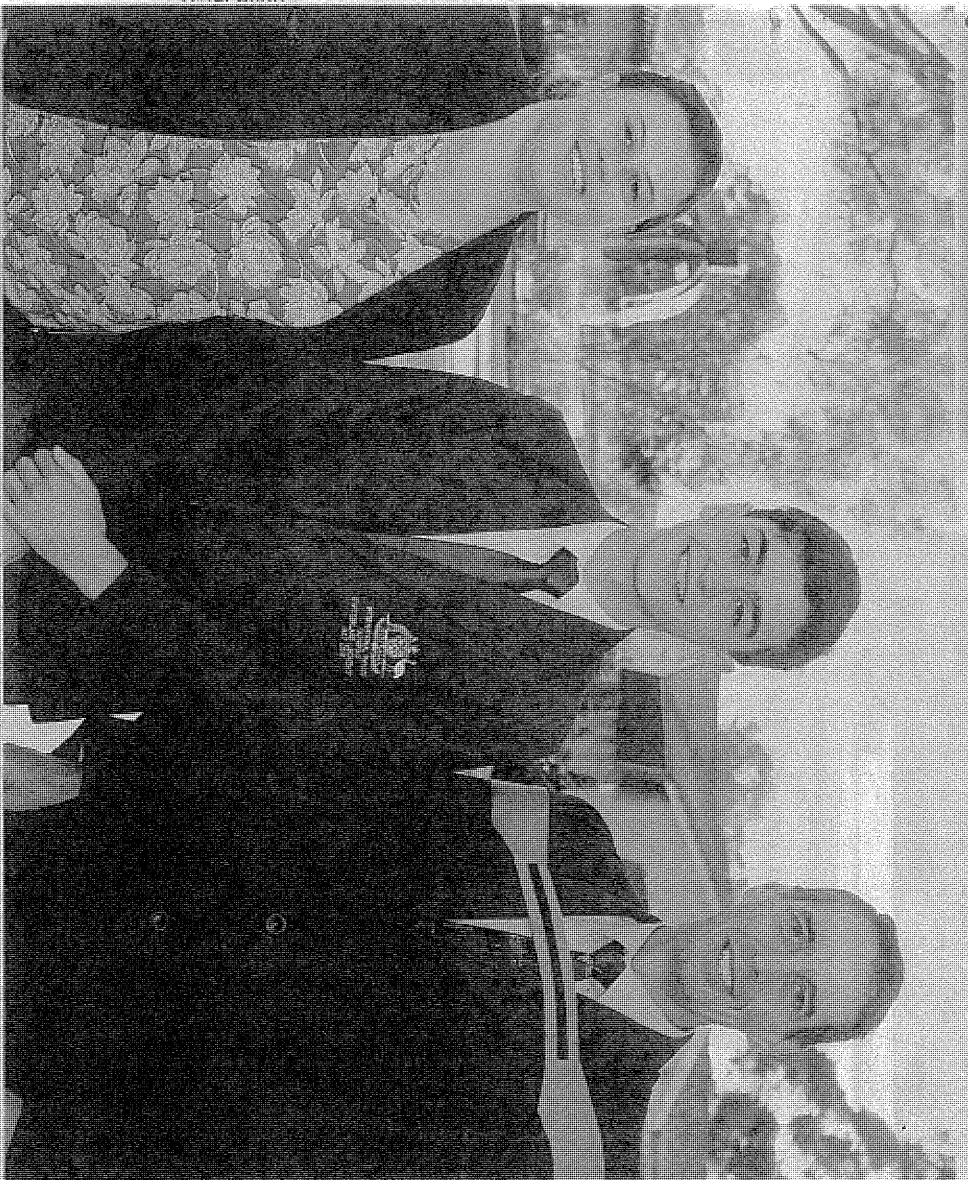
Tickets for the Perth season of *Matilda The Musical*, which begins in February next year, go on sale on August 10.

2-8  
Western Subs Aug

## Perth shines at Helpmann awards

Perth talent took centre stage at last Monday night's Helpmann Awards ceremony at Sydney's Lyric Theatre.

*Matilda The Musical* brought home a record 13 awards from all 13 categories the production was nominated for, including Swanbourne-raised Tim Minchin who won Best Original Score.



**Medal man ...** Teacher Holly Rose with Olympiad bronze medalist Thomas Waring and Christ Church principal Alan Jones.

## Thomas's forte is physics

Thomas Waring won a bronze medal in physics at the UNESCO-sanctioned International Science and Mathematical Olympiads in Zurich last week.

Thomas, in Year 12 Christ Church Grammar, was the only

WA student in Australia's team of 27.

Student biologists, chemists, computer programmers, physicists, mathematicians, and Earth scientists spent a week in Zurich, Switzerland, after a year of exams and intensive training.

Australia won two silver and three bronze medals.

"We are very proud of Thomas's achievement and how well he fared against the world's best junior physicists," Dr Holly Rose, science head at Christ Church, said.



# More homes needed for homeless: Chief Justice

Dylan Caporn

Chief Justice Wayne Martin believes there is a “disarmingly simple” answer to the question of homelessness — provide more housing. Justice Martin, who made the marks at a homeless week breakfast event last week, said the economic cost of homelessness was much higher than the cost of social housing. Put bluntly, the economic cost to the public of providing care in hospitals, mental health institutions, juvenile detention centres and prisons is much greater than the cost of providing housing, even without taking into account the very substantial public costs incurred providing non-residential health and mental health services to the homeless, and the

public costs incurred in policing and administering community-based justice to the homeless,” he said.

“In my view, there is a disarmingly simple answer to this question — we should provide more housing for the homeless.

“Of course, providing housing consumes limited public funds, but so does not providing housing.”

Justice Martin said given the over-representation of homeless people in the criminal, health and mental health systems, a cost-benefit analysis of providing social housing would likely prove the cheapest solution was providing housing.

Housing Authority chief executive Paul Whyte told *The West Australian* Justice Martin’s view resonated with the agency.

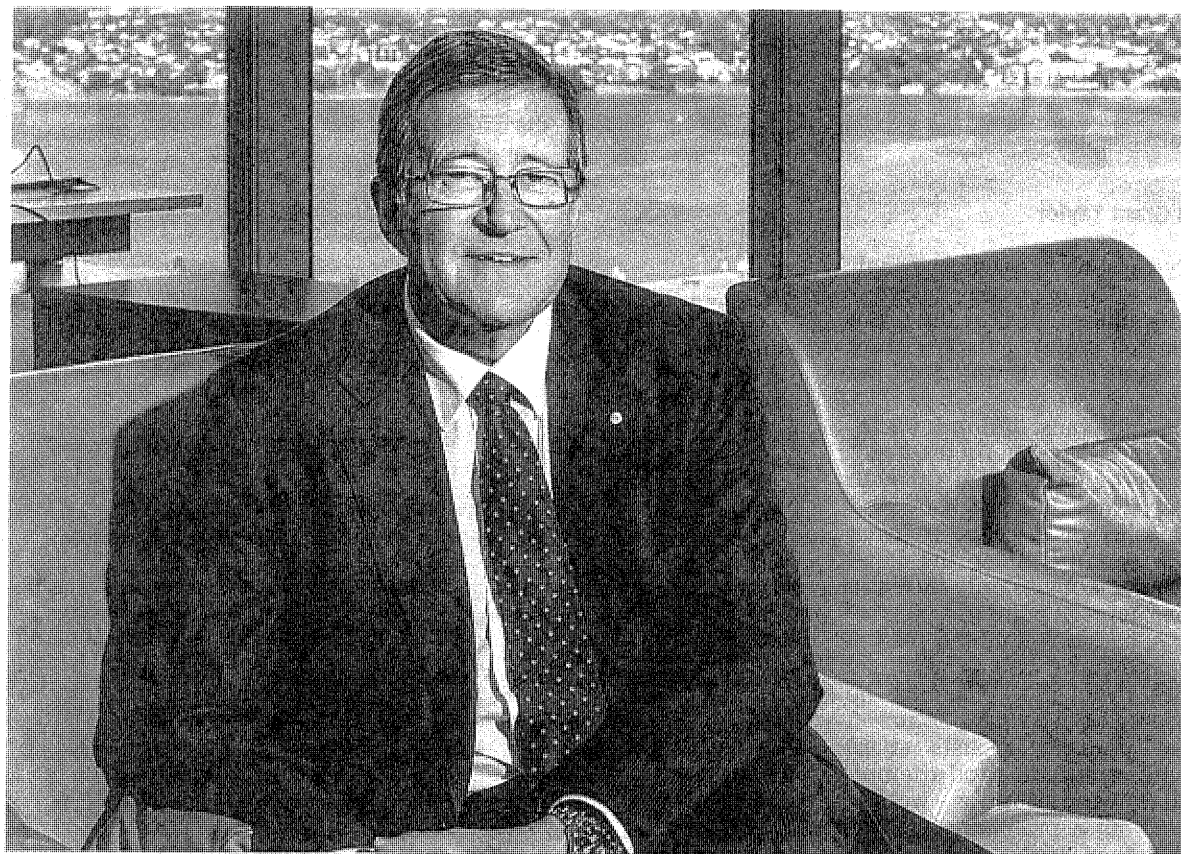
“Certainly, providing housing

for people who are homeless or at the risk of homelessness is the first step,” Mr Whyte said.

“Providing the services to be able to sustain the tenancy is also extremely important, because a house alone won’t be the solution.

“And that means being able to budget, to be able to integrate within the local community and to be able to get your life on a track.

“Which is a lot more than just a bedroom and a kitchen.”



Chief Justice Wayne Martin says the economic cost of homelessness is huge. Picture: Mogens Johansen

Justice Martin also stressed the importance of the criminal justice system and homelessness.

“The intersection of a homeless person with the criminal justice system should be seen as an opportunity for beneficial intervention aimed at addressing those criminogenic factors, together with that person’s homelessness,” he said.

“If those factors and the person’s homelessness are not successfully addressed,

further offending is inevitable.

“A solution-focused approach to offenders with these characteristics is much more likely to protect the community from reoffending behaviour than an approach based on punishment or deterrence.”

Homelessness Week, which ended yesterday, focused on ensuring that those who are homeless correctly fill out tomorrow’s Census to help governments establish the extent of the issue.

**today**  
Thursday, August 18

## MINCHIN HOGS CRITICS' ACCLAIM

**H**istory is repeating for Perth comedian **Tim Minchin**, with his new musical *Groundhog Day* earning rave reviews from critics and celebrities alike.

Musician and lyricist Minchin collaborated with the co-writer of the original screenplay, **Danny Rubin**, to bring **Bill Murray's** classic 1993 comedy to the stage.

"At long last we officially open at the Old Vic Theatre tonight. Huge love and chookas to the extraordinary company," he tweeted on Tuesday night ahead of the London premiere.

*Groundhog Day* has proven

*"I was sobbing, I was laughing, I thought it was wonderful."*

Danny Rubin



Danny Rubin and Tim Minchin  
Picture: Dave Benett/Getty Images

Minchin is no one-hit wonder following the huge success of his first foray into musical theatre, *Matilda The Musical*, which is set for its **WA** premiere at **Crown Theatre Perth** in March.

Little Britain comedian **David Walliams** tweeted

*Groundhog Day* was "a work of genius".

"Mr @timminchin has done it again," he wrote.

"I can't wait to see it again & again & again & again..."

Theatre critic **Dominic Cavendish**, writing in London's *Daily Telegraph*, gave it five stars and claimed

it might even be better than the movie, while theatre publication *The Stage* called it "an absolute triumph".

In a recent interview with *The Times*, Minchin revealed he was thinking about playing the lead role should the production come to Australia.

"I just need a haircut, a few kilos off," he said. "But it would be a great idea."

Rubin turned down previous offers, including one from **Stephen Sondheim**, to turn his creation into a musical but relented after watching some Minchin songs online and then flying to London to see *Matilda*.

"I was sobbing, I was laughing, I thought it was wonderful," Rubin said.

Their first big planning session was held in **Andrew Lloyd Webber's** New York apartment, which Minchin had borrowed while he was in town for the Tony Awards.

An Australian tour is yet to be announced.





## Christ Church Grammar School

Christ Church Grammar School is proud to present  
Maggie Dent - From the Sandpit to Adulthood:  
Helping Today's Children Thrive.

The 10 keys to parenting children who thrive  
through challenges and adversity.

This is a community event available to everyone.

**Date:** Wednesday 24 August

**Time:** 7.30pm

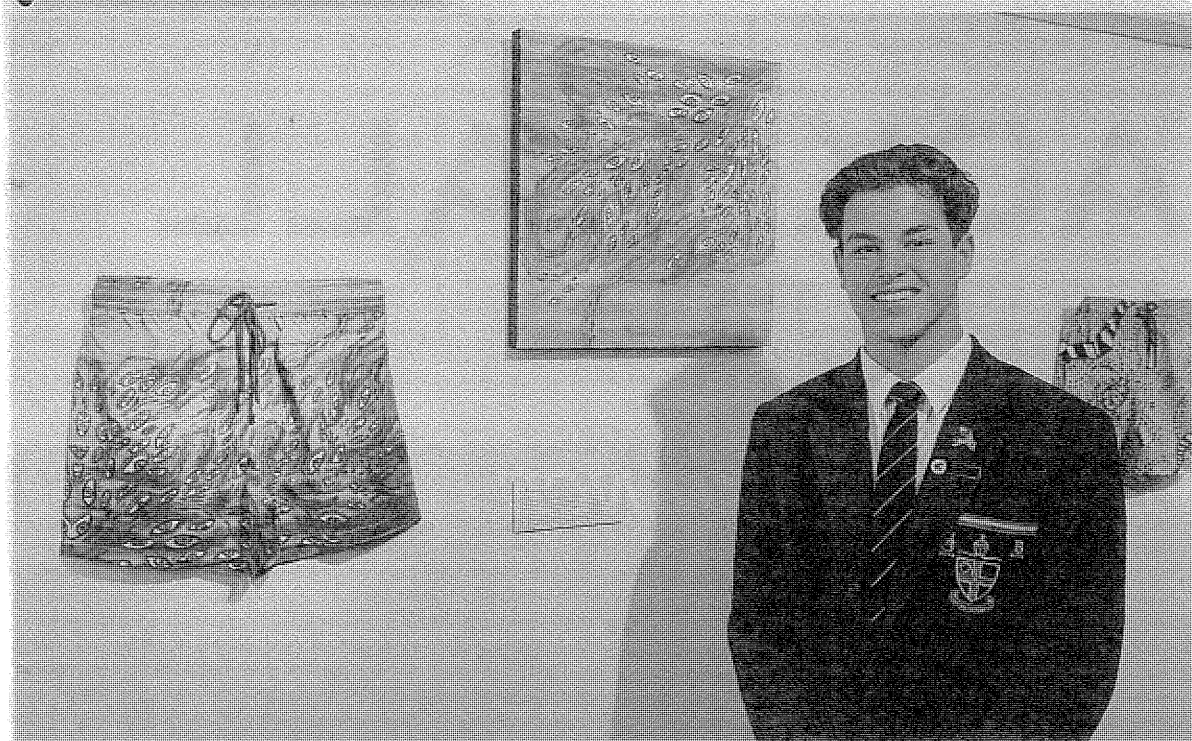
**Venue:** CCGS Senior School Staffroom,  
Queenslea Drive, Claremont

**Cost:** \$10

Limited places so book now at [ccgs.wa.edu.au/news](http://ccgs.wa.edu.au/news)  
or [trybooking.com/203172](http://trybooking.com/203172)



*Post Aug 13/2011*



*Will Fong with his artwork and the boardies printed with his design.*

## Boardies tell indigenous stories

**Thirteen indigenous students at Christ Church Grammar School are looking forward to seeing their artwork all over Perth's beaches this summer.**

Their paintings, inspired by stories from family elders, have been printed on Ocean Zone boardshorts by local designer Reif Myers.

Last week, the students' work was on show at the opening of *Tidelines*, the indigenous student art exhibition that celebrated the boys' artistic talents.

School principal Alan Jones praised the students for their remarkable artwork, and

thanked everyone involved in the indigenous student program.

"It was an inspiring evening and a special event for our indigenous students," Mr Jones said.

"The boys have worked incredibly hard, creating impressive pieces of work.

"They come to the school as students and through this program they become teachers.

"Through their art and as part of our community they teach us about their culture and their stories."

The students were encouraged to research their families and countries and to create artistic stories on canvas.

Art, design and media teacher

Anna Cornell said she was incredibly impressed by the students' work ethic and engagement with the project.

The artwork, stories and boardshorts will be on display in the Old Boys' Gallery at Christ Church Grammar School in Claremont until Tuesday, August 23.

Parents and the wider community are welcome to view the exhibition during school hours or by special request.

The *Tidelines* boardshorts are available for sale through [www.oceanzone.com.au](http://www.oceanzone.com.au).

Money raised will go to Christ Church's indigenous student program.



EX CCQS - Teacher

# Island swim strengthens the Kazzie link

By LISA STEWART

**Mt Claremont resident Shane McGurk has become the first person to swim solo around the Greek island of Kastellorizo, a distance of almost 20km.**

Shane dedicated the swim to his mother-in-law, Antoinette Podger.

"Her grandparents, Stamatis Agapitos and Elisabet Agapatou, left Kastellorizo in the early 1920s," he said.

Stamatis and Elisabet were part of the first wave of Greek migrants – many of them from Kastellorizo – to arrive in Perth.

Ties between Perth and the island run deep.

The Kastellorizian Association of WA was formed in 1912 and is now, according to some, the oldest ethnic organisation in Australia.

Descendants of those who left Kastellorizo in the first half of the 20th century are among Perth's most successful families, an indication of the contribution of migrants to Perth's history and society.

Today, surnames like Kailis, Zempilas, Kannis, Kakulas, Panegyres, Kalaf and Pitsikas roll easily off WA tongues.

Another "Kazzie", Mick Michael, was lord mayor of Perth when Kastellorizo became one of Perth's sister cities in 1984.

Shane (56), who taught physical education and health at Christ Church Grammar School from 1986 to 2011, first visited Kastellorizo in 2011.

"With friends Steve Dobson and Tim Humphries, I set off on a surf-ski looking for the famous Blue Grotto," he said.

"Due to high tides, it was difficult to locate and we soon found ourselves halfway around the island.



*There are strong links between Perth and the island of Kastellorizo – many "Kazzies" have migrated to Perth over the past century.*

"Rather than return, we decided to complete a circumnavigation."

Shane said he fell in love with the island's beauty and

tranquility, and the unplanned circumnavigation made him resolve to return to the island one day and swim around it.

"When I learnt that nobody

had ever swum all the way round, I became even more determined," Shane said.

"It was a first waiting to happen."

Shane has always been attracted to the challenge of open-water swimming.

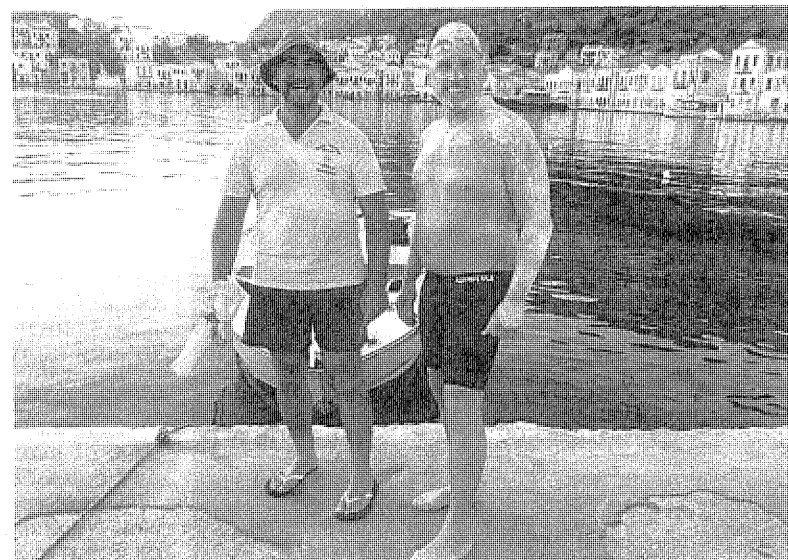
In 1983, he was the eighth person to complete the 20km Rottne Channel Swim solo, something more than 3000 competitors have since achieved.

On Sunday, July 11, Shane delivered on the solo island swim promise he had made to himself five years earlier.

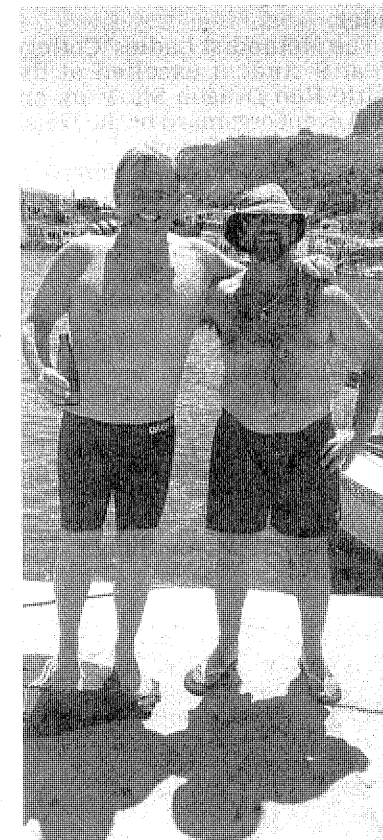
He set off from the steps in front of Hotel Kastellorizo at 6am.

Stergos Tholoenos, a local electrician and keen diver, tailed him in his boat, throwing drinks to him at 30-minute intervals – the International Swimming Federation's strict rules for open swimming meant Shane could not touch the boat at any time.

Shane achieved his dream in five hours and 45 minutes.



*Shane McGurk and local diver Stergos Tholoenos, who followed Shane in his boat, on the steps of the Kastellorizo Hotel, ready for the big swim.*



*The triumphant duo – it took Shane five hours and 45 minutes to swim around Kastellorizo.*

Since his return to Perth, many of his swimming-mad friends have expressed interest in organising a group swim around the island.

"I'd love to go back again, too," Shane said.

"I went to school with some Kazzies, and my wife, Lisa, is proud of her family's history.

"It's a truly beautiful island and, as a proud West Aussie, I'm conscious of the history that connects us to that very special place."

# Trump's a mountebank: Beazley

by DAVID COHEN

Donald Trump is a fraud and criminal, Kim Beazley says. Mr Beazley, Australia's ambassador to the US for six years, told a Claremont audience that Australia had to think about its survival if Mr Trump, the Republican candidate, became US president in November.

"If he sticks to his word he will shatter the Western alliance - and your employment prospects," Mr Beazley told Christ Church Grammar School political and economic students.

"Donald Trump is a mountebank and a criminal ... [his supporters] want him to do his worst."

Mr Beazley, a federal Labor MP for 27 years, said he had to speak in euphemisms and not insult people during his political life. "Stuff all that," he told the Christ Church students.

"We need to think clearly about our national survival."

"You're all we've got - so you'd better be good."

Mr Beazley said Australia's destiny was more closely tied to the US than ever.

"American investment in Australia is probably twice what is in China," he said.

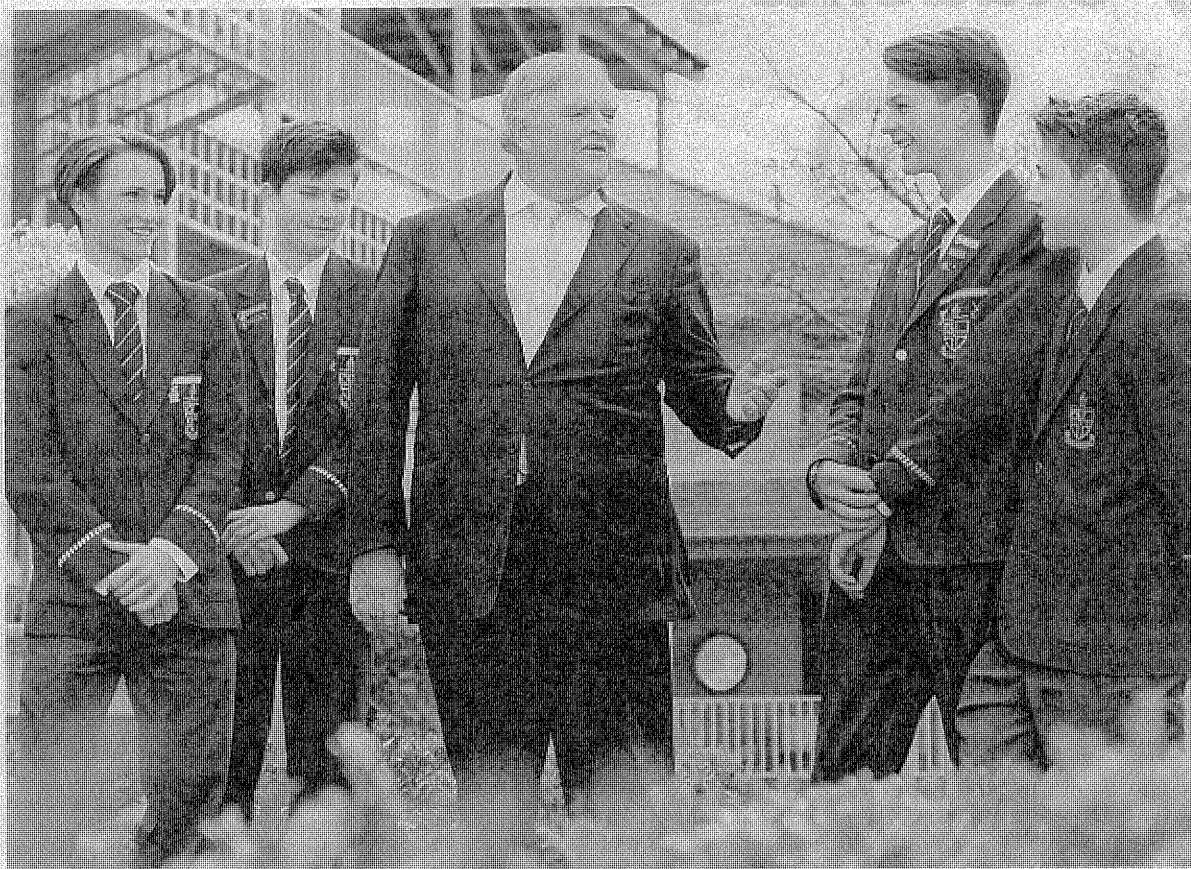
"Our chances of employing people are tied closely to the American economy."

"Should an American president cut loose, we will be in real trouble."

Mr Beazley said Mr Trump had rejected free trade, wanted tariffs to protect the US and could scrap regional economic agreements.

"He's put the Japanese and Koreans on notice they have to pay more," Mr Beazley said. "That would send both of them nuclear within a decade."

Mr Beazley said the Republican nominee's support-



*You'd better be good ... Kim Beazley with Lachie Higgins, left, James Sier, Henry Martin, and Sasha Slater.*

Photo: Paul McGovern

ers - mainly white males - were "gigantically angry."

"They don't care [what Mr Trump says] because they are about revenge," he said.

"They want to see Trump do his worst."

"They will cheer mightily because they are in fear of losing their jobs."

"They want to see what happens when someone does these things."

Mr Beazley said Mr Trump's attitude to nuclear weapons was disturbing.

"His first question to his advisers was, 'Why haven't we used these?'," Mr Beazley said.

"He has done immense damage to America's reputation globally."

"It would be an enormous lift for ISIS if Trump won."

"If he's elected we're in for a time that will test our calibre."

Mr Beazley said Democrat Hillary Clinton should win, because she had more people working for her, and because the wives of Trump supporters didn't like Mr Trump.

"He's started to alarm a

section of the white community," Mr Beazley said.

"Women - don't particularly like Hillary Clinton, but they're beginning to dislike Trump."

"They don't like harsh language and a sense of menace."

"Their husbands will vote for Trump - but they may not."

Mr Beazley went to Hollywood Senior High School and recalled his team losing a rugby match at Christ Church.

His talk, last Thursday, was put on by the school's centre for ethics.

Post Aug 20/2016

## Stranger danger lesson pays off

Two young Dalkeith boys were congratulated on Monday for having the courage to run from men who tried to get them in a car.

Police were told the boys (10) had been approached by men in a car in a Dalkeith street last Friday.

The boys had changed out of their Christ Church Grammar School uniforms and were playing in the street.

A school spokeswoman said the occupants of the car told the boys they had a gift for them

in the car, and to come closer. "The boys felt uneasy and ran back to one of their houses," she said.

Sergeant Darren Gates at Cottesloe police said the boys had told officers there were two or three men in the car, which was a white sedan, possibly a Toyota.

"The driver had curly brown hair, a short beard, and a red checked top," Sergeant Gates said.

"The passenger was bald and in his 40s."

"There may have been a

third person, but there was no description.

"The boys did the right thing and took off."

The school spokeswoman said that in school assembly that Friday morning, students had been spoken to about protecting themselves from strangers in cases like this.

On Monday morning, the two students were praised at a school assembly for their smart decision to run away.

The Education Department notified all independent schools about the incident.



Post Aug 27



## Students go solo

**Expressive ...** Leo Li, left, and Brianna Afiat will be part of a concerto effort. **Photo: Paul McGovern**

**Student soloists will star with an orchestra at a Claremont concerto night next month.**

Ten students from Christ Church Grammar School and four from Methodist Ladies' College will perform works, from a 19th-century Belgian composition to American jazz standards.

CCGS's Leo Li will perform saxophone solos of Charlie Parker's *Just Friends* and Jimmy Rogers' *Love a Man*.

"Piano was my first instrument, but I've been playing sax since Year 7," Leo said.

"There's something about jazz - the freedom, and especially the ability to improvise."

Leo said both pieces he would perform were jazz standards from the early 20th century.

"The best version of *Love a Man* I've heard was Sonny Stitt's," Leo said.

"He was an alt-saxophonist

who took after Charlie Parker."

MLC's Brianna Afiat will play *Scene de Ballet* by Charles de Beriot, a work she first heard last year.

"It's not played very often and has a lot of variations and melody changes," Brianna said.

The event is on Friday, September 9, in MLC's Hadley Hall.

Entry is free to students and \$20 for others.

# Surf, fun and reconciliation

## SURFING

By CAMERON BEDFORD-BROWN

**The Indigenous Communities Education and Awareness Foundation will hold its ICEA Classic Festival at Cove next month.**

In its seventh year, the classic is one of WA's largest youth-run surfing competitions.

It's also an opportunity for all young people to come together in celebration of one another's culture, to form relationships and take a step towards reconciliation.

Visitors to the event can dive into the rich Noongar culture, see some surfing and skating, enjoy live music and unique food, all set against the backdrop of the beautiful Indian Ocean and Cottesloe beach.

Entry into this year's ICEA Classic is limited to under-18 surfers, and they can enter the event only once.

The divisions are under-13 boys and girls, under-15 boys and girls, and under-18 boys and girls.

The classic will be held on September 11 and entries close on August 28.

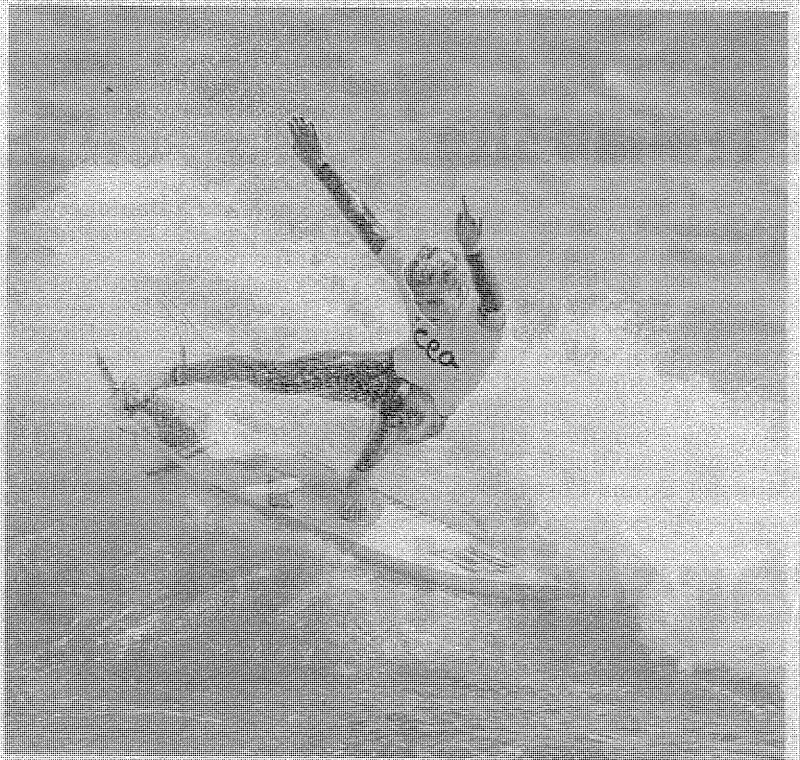
■ ■ ■

Western suburb schools performed well in the recent metropolitan rounds of the Sunsmart School Surfing Titles at Leighton beach, which was protected from the strong winds and wild surf further up the coast.

Clean contestable conditions set the curriculum and students of the surf took advantage of the opportunity to score high marks.

Surfing WA event manager Justin Majeks said that despite some wild weather and testing conditions, the regional and metropolitan qualifying events of the School Surfing Titles were done and dusted for this year.

"Two marathon weeks of surf-



Surfing action from last year's ICEA Classic. Photo: Tom Joyner

ing and bodyboarding have seen 53 schools and more than 280 teams battle it out for a chance at finals day, scheduled for Friday, August 26," Justin said.

Students from Christ Church Grammar School, Scotch College, John XXIII College, Presbyterian Ladies' College and St Hilda's Anglican School for Girls made the finals and surfed well in the preliminary rounds.

■ ■ ■

Professional surfing is serious business these days, as shown in the raw emotion displayed by underdog Hawaiian surfer Keanu Asing after his third round win at the Tahiti Pro during the week.

Asing was fired up and animated, saying it was do or die for him on tour at the moment.

"I'm fighting for money, my career, my job," Asing said.

"I'm not going to let these guys take my money and my job, and I'm going to give it everything I've got."

Australian surfer Matt Wilkinson had a poor result in Tahiti, going down in the third round and forfeiting his No. 1 spot on the ratings and the coveted yellow guernsey to Hawaiian John John Florence.

Florence was in stellar form and made the final before going down to Kelly Slater.

Slater had an excellent event, scoring four perfect 10-point rides, including a perfect score of two 10s in his round five heat.

It was Slater's first win for a few years, the 55th win of his amazing career and his fifth Tahiti Pro win.

Slater was unusually emotional after the win and said it was a special time for him and he was stoked.

Post 28 August.

## School bus run is growing

**Methodist Ladies' College and Christ Church Grammar School are extending one of their bus routes.**

The Nedlands bus will travel through Shenton Park and Subiaco from August 29.

The schools' City Beach/Floreat route has reached its 45-passenger capacity.

MLC and CCGS started the

routes in February.

MLC says parents like the service, which costs students 50 cents, because it gives them drop-off points without having to go to Claremont during peak hour.

Earlier in the year, Claremont mayor Jock Barker praised MLC as good corporate citizens for trying to improve the town's congestion.

Post Aug 27





Teacher Sally Mackinnon with students Ken Lo, left, and Jack Landau have investigated water scarcity.

## Learning to save every drop

**Sally Mackinnon's students are full bottle on the world's water problems.**

Her 26 Christ Church Grammar School students have made changes in their lives to help ease the pressure on the planet's scarce resource.

Their report on the topic of Water and the World, for the International Boys' School Coalition, was one of the top seven.

"When they do research – ob-

serve, collect data and investigate – it makes more sense to them," Sally said.

"We have an Earth keepers' camp at our Koorringal outdoor education centre for Year 5s where boys learn how to look after the planet.

"The boys are so engaged in learning when they're away from the classroom."

The students collaborated and used their problem-solving skills during their work, which

culminated in a 22 minute documentary, *The World Water Crisis*, which can be seen online.

"We had actors, an editing team and musicians all doing their bit for the film," Sally said.

Sally organised a hydrologist, an SAS soldier and a Corrigin farmer to talk to boys about their use and need of water.

Sally, who has taught at Christ Church for five years, said being a teacher meant she was never bored.

Sept 3

# Symphony in tune with spring

Spring has sprung and the Fremantle Symphony Orchestra is ready to celebrate it.

A highlight of FSO's concert next Sunday will be *The Seasons*, composed by the orchestra's musical director, David Pye.

David was commissioned by the orchestra to write the work, which is set around a series of poems by local poet Kevin Gillam.

The music was written to reflect the Australian spring ambience, its variety and colour, and this will be the work's premiere.

The FSO concert will also include Aaron Copland's tuneful, elegant *Appalachian Spring*, and the spring movement of Vivaldi's *Four Seasons*.

*Appalachian Spring* was first written as a ballet but Copland



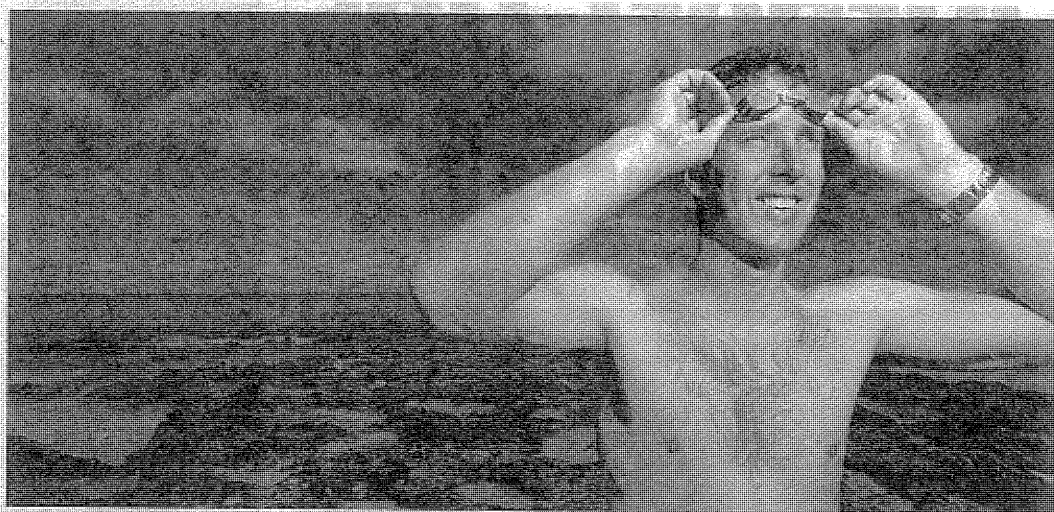
Kevin Gillam wrote the poem for David Pye's new composition to be played at next week's FSO concert. As well as being head of music at Christ Church Grammar School, he has published books of poems.

later re-wrote it as a large orchestral suite and it is in that form it has become so famous.

He included his local folk melodies, such as the well-loved song *Simple Gifts*.

The concert will be at the Fremantle Town Hall at 3pm on Sunday, September 11.

Tickets are \$25, \$20 concession and under-12 years free and can be bought at the door or at [via www.eventbrite.com.au](http://www.eventbrite.com.au).



Olympian Bill Kirby has joined forces with Hawaiian to reopen the Melville Plaza pool.

West Aust 7 Sept

## Swim star revives Melville pool

■ Helen Shield

Property group Hawaiian is working with Olympic gold medallist Bill Kirby to resurrect a 25m swimming pool in the Melville Plaza shopping centre that has not been used for almost three decades.

The pool, once part of a gym, is getting a major plumbing and filtration upgrade and Mr Kirby, who runs Kirby Swim, said the plan was to have the pool open by November — for the summer swimming season.

Kirby Swim has signed a 15-year lease with Hawaiian — which bought the 22,129sqm shopping centre for \$29 million in 2013 — over

a 680sqm "dead" space. "We weren't really looking," Mr Kirby said of the Melville Plaza expansion. He said a friend had, by chance, stumbled across the dormant pool in the centre and things had moved from there.

The Melville move is the latest Kirby Swim expansion. It is already in Gwelup/Karinyup, Mt Lawley, Wembley, Mandurah and at two pools in Claremont, where it began in the Christ Church Grammar School pool in 2002.

"This year we will have two new centres up and running," Mr Kirby said.

He said the L-shaped Melville pool now had a baby ledge and stairs with a rail-

ing, for easier access for parents carrying babies, older, less mobile adults and adults recovering from sporting injuries. The renovation includes re-tiling, new bathroom and changerooms and a first-aid room.

Hawaiian chief executive Russell Gibbs said the \$2 million pool renewal was just the start of the group's "exciting plans" for Melville Plaza, starting next year.

"Connecting with our community is an integral part of how we operate our shopping centres," Mr Gibbs said.

Primewest's Kirby Swim pool complex next to its Gwelup Shopping Centre in Karinyup opened in May.



# Flutes go French

**Classical** chamber group Trio Magellan's final concert of the year will focus on the flute.

With flautist Michael Howell, cellist Sacha McCulloch and Faith Maydwell on piano, the flute trio program, called French Connections, includes two contemporary works by French composer Jean-Michel Damase and Eugene Goossens, director of the Sydney Conservatorium from 1948 to 1955.

In a loose French connection, the trio includes a flute concerto by German classical composer Friedrich Kuhlau, who fled to Denmark to avoid being conscripted into the Napoleonic army.

Magellan performs at 4.30pm on Saturday, September 17, in Christ Church Grammar School chapel, Claremont, and on Sunday, September 18, at 3pm, at Trinity College, East Perth.

The concert is free for school-age children.

Book through [trybooking.com](http://trybooking.com) or buy tickets at the door.

*Post  
10 Sept / 2016*



■ Cellist Sacha McCulloch and Faith Maydwell on piano are joined by flautist Michael Howell for a special flute program.

# Make the most of your lives, judge

By DAVID COHEN

There was more pressure on WA's Chief Justice when he was a schoolboy than when he sat on the bench presiding over murder trials.

"My Year 12 was the most competitive time in my life," Wayne Martin said, before he spoke about life choices at a Christ Church Grammar School assembly.

"There was a lot of pressure to achieve."

The effort paid off. Justice Martin's class of 1969 won five of the 20 general exhibitions awarded that year.

Justice Martin (63), who has been Chief Justice since 2006, drops his son and Year 12 student Henry at school on his way to work and has been involved with the school's council for two years.

"It's quite a different school now," he said.

"In my day, it was very academically-focused.

"It's much broader now, which is very healthy."

Justice Martin threatened to embarrass Henry in his speech.

"It seems only fair, considering the embarrassment he has caused me and his mother," Justice Martin said.

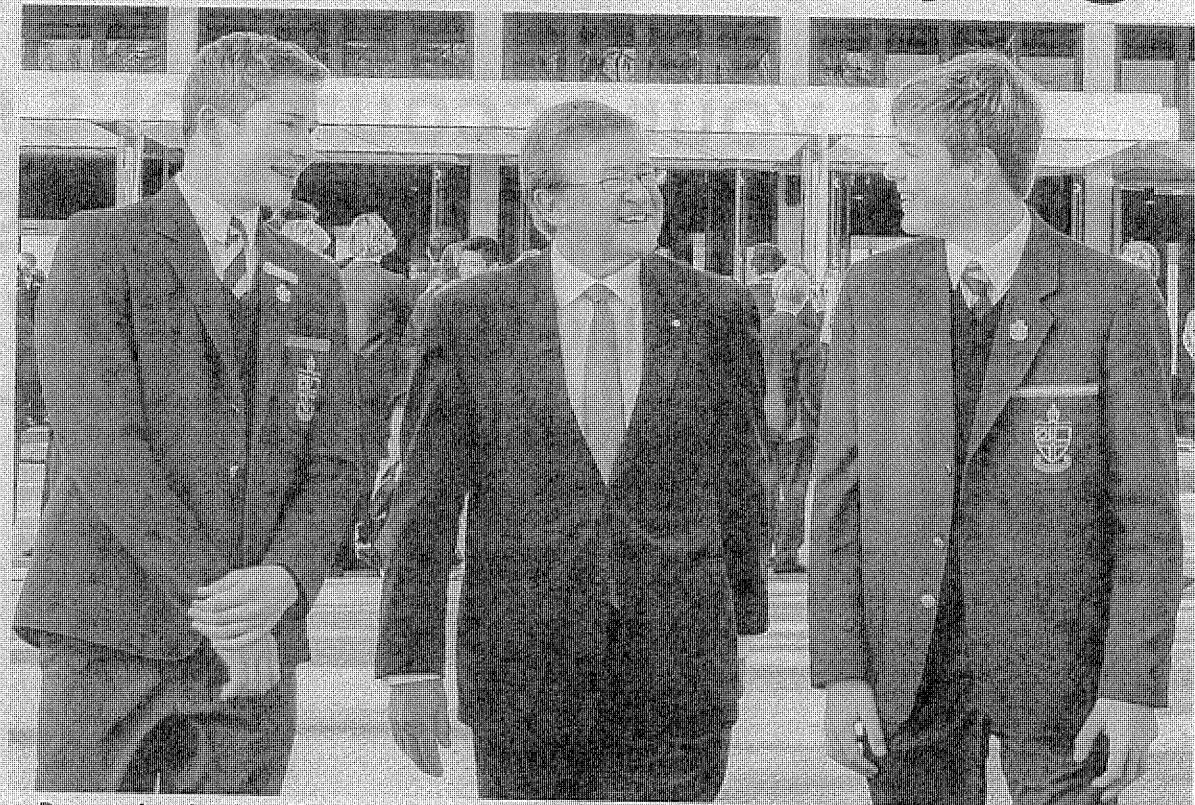
He told students his job often brought him into contact with people who hadn't made good choices.

"My world is populated by people the community regard as bad," Justice Martin said.

"But there is a great difference between doing a bad thing, and being a bad man."

He said he admired many people with whom he was at school.

"One is a doctor who is doing world-breaking research into women's health and premature



*Romsey boy back at Christ Church ... Wayne Martin with Stanley McFarlane, left, and Jack Beaman.*

birth," Justice Martin said.

"One is a world-class sportsman and coach.

"One is a surgeon who leads teams to Africa each year.

"One is a teacher, one is a golf course designer.

"You are only limited by your imagination."

Justice Martin referred to YOLO, the popular acronym that means You Only Live Once.

"It's sometimes used to justify risky actions, or something stupid," he said.

"But I've come to the opposite conclusion - because we only live once, we must make the most of the opportunities that come our way."





## Christ Church Grammar School

Christ Church Grammar School motivates boys to achieve academic excellence.

Specialising in early years education for boys, our next Preparatory School tours are:

**20 September 9.00am**

**20 October 1.30pm**

**8 November 9.00am**

**16 November 9.00am**

Providing boys with rich academic and co-curricular experiences, our next Senior School tours are:

**14 September 9.00am**

**17 October 12.30pm**

**2 November 9.00am**

**15 November 9.00am**

To reserve your place on a tour visit the Enrolments page at [www.ccgswa.edu.au](http://www.ccgswa.edu.au) or call 9442 1555.



*Post. 10 Sept 2016*

# Shark invested

The chartered accountant behind technology that helps protect ocean users from shark encounters explains how his business came about, and why he'll continue to innovate.

BY BEN POWER PHOTOGRAPH BY RYAN PIERSE

**WHEN ENTREPRENEUR.** scientist and chartered accountant Hamish Jolly appears on radio, it's usually preceded by the "dun dun, dun dun" of the infamous *Jaws* soundtrack.

After a series of fatal shark attacks in his home state of Western Australia, Jolly has commercialised a range of technologies to protect against shark encounters. His commercialisation of the famous "striped" wet suit has become an Australian innovation classic.

Sharks are a powerful, emotive issue. Just weeks before we speak, two more people were killed in Western Australia's waters. Jolly is reluctant to comment.

"When you take on the development of a technology in this domain, there is a responsibility to be really objective and science-led," he says.

"The whole issue of shark attack is quite incendiary – people have strong views and are highly polarised. We have to defend

against getting swept up in the hysteria."

All through his career Jolly says he has vacillated between what he calls "the money or the box". The money is the pursuit of wealth creation, while the box is his love of science.

## The money

Jolly grew up in Fremantle. His father was a merchant seaman and deputy harbour master of Fremantle Port and his mother was a nurse.

"We were a public service family living in a middle class suburb in Perth," he says.

When he was about six he was given a book for his birthday called *Discovering Nature*, which helped trigger a love of science.

His parents sent him to the elite Christ Church Grammar, which counts high-profile business people including Andrew Forrest and Sir Rod Eddington among its alumni.

PHOTOGRAPH BY RYAN PIERSE/GETTY IMAGES



Despite Jolly's love of science, when he graduated it was the heady boom days of the 1980s.

"All my mates were stockbrokers, lawyers and finance guys who seemed to be doing really well."

So he decided to study business. He completed a double major in Business Law and Accounting, then joined Arthur Andersen's corporate reconstruction and insolvency practice where he completed his chartered accountant's qualification. The money, at least temporarily, had won.

Jolly says his time as a chartered accountant set the parameters for how he does business – ethical, professional, high-energy and with a commitment to deliver at all costs.

But then science called again, and he returned to the University of Western Australia to undertake Master of Science studies.

### The box

Jolly's career became "very diverse" as he struggled to integrate both business and science. He worked in the international development and defence technology sectors. After settling and marrying in Adelaide, he wanted to move back to Perth. So he set up a technology software company, before joining Bankwest in a Group Strategy and M&A role where he found himself unpicking a series of the bank's stalled tech investments.

"I was definitely restless," he says.

"I had a bottom drawer full of projects and no time to properly execute them."

He took what he describes as a sabbatical in the not-for-profit sector and became CEO of Greening Australia, the country's largest environmental non-government organisation, but even there he brought his commercial acumen to the role.

Jolly drove Greening Australia's acquisition of a native seed business that delivered a vertical integration strategy, both providing seeds for planting but also generating an income stream.

But in 2012 he decided that if he were to get the "bottom drawer" projects

moving, he was going to have to devote himself full time. From a home office he began developing a portfolio of start-ups in the technology, renewable energy and science domain.

"I backed myself," he says.

He now has two main ventures. The first is Biogass Renewables, which is developing and commercialising anaerobic digestion bioenergy technology. It has already commissioned a plant that takes 50,000 tonnes of food waste to produce two megawatts of power and is servicing a pipeline of deals to roll out the technology across Australasia.

But the most high-profile is Shark Mitigation Systems Ltd (SMS) which is developing non-invasive shark deterrent technology, including the sonar detection system Clever Buoy and shark visual systems technology leading to the striped "don't eat me" wetsuit and surfboard.

### A pattern emerges

In 2011 there were two fatal shark attacks in Western Australia. Jolly is an open water swimmer and kite surfer and his SMS partner Craig Anderson is a passionate surfer. They realised that technology would have a major role in helping keep ocean users like themselves safe.

It was a scientific quest, and Jolly had a strong lead. While he was CEO of Greening Australia, he happened to have dinner with legendary television bushman and naturalist Harry Butler (whom Jolly describes as a "precursor to the late Steve Irwin").

Jolly asked Butler what the solution to the shark attack problem was likely to be.

"Take a black wetsuit, band it in yellow stripes like a bumblebee, and you'll be mimicking the warning systems of most marine species," Butler replied.

Pacific Island tribes had already mimicked sea snakes and painted themselves in bands to ward off the shark god. Oceanographer Walter Starck striped his wetsuit with paint during the 1970s.

Jolly calls the idea a "biological anecdote" – an idea that humans have passed down from generation to

generation. He says that science can be about innovation, but also "translation" – transforming something already there into something that can be used to benefit mankind.

But it was only when three more fatal shark incidents terrorised WA in 2012 that Jolly started seriously exploring the idea.

There was a stroke of luck. Professor Nathan Hart of the University of Western Australia's Oceans Institute had just written a paper that confirmed predatory sharks see in black and white.

Jolly approached Hart with the idea that patterns and shapes could be used to create a wetsuit that mitigated shark attacks. Hart thought it was a good idea, and they began collaborative research supported by the WA Government.

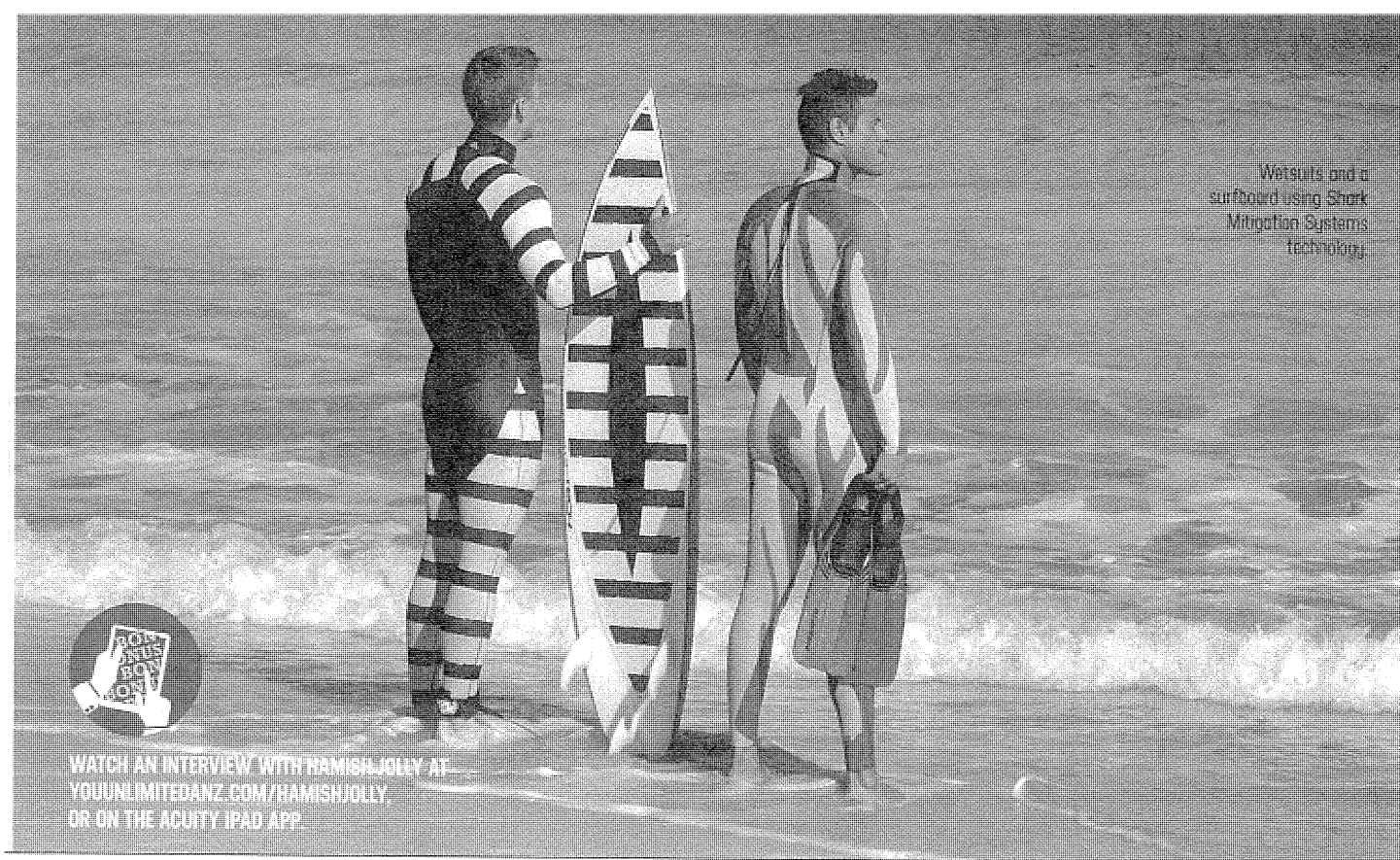
After mapping the visual systems of the big predatory sharks – great white, tiger and bull sharks – and computer modelling to establish what sharks can actually see underwater, Jolly turned to Ray Smith. Smith is a well-known wetsuit designer (who also came up with the original Quiksilver logo), to convert the science into a wetsuit people might wear.

### Keeping sharks at bay

But would it actually work in the water? The UWA has begun independent testing where a perforated drum is filled with bait and wrapped in a neoprene skin. An underwater camera captures the shark's behaviour. They started with tiger sharks, then the more confident great whites, and videos show the sharks moving towards the drum then turning away when they close in.

Jolly says testing is ongoing in South Africa, and the unpublished results remain very encouraging. SMS licenses the technology to third party brands. ARENA, for example, has a global license to integrate the technology into its new FINA-compliant open water swimming and triathlon suits.

SMS, in conjunction with Optus and with funding from Google, is also developing other technology, including



the Clever Buoy, which uses sonar and satellite to detect sharks. It was successfully tested in a 45 day trial in February 2016 at Bondi and is slated by the NSW Government for rollout to other beaches in NSW.

### Commercialising ideas

Innovation is a buzzword and many are turning to universities for research and technology to commercialise. Jolly says universities are an "Aladdin's Cave of technology and opportunity just ripe for commercialisation".

"But universities historically have not been very good at it," he says, adding "a whole range of things hold us back from commercialisation."

The currency unit for an academic scientist is the scientific paper.

"Many potentially great technologies get written up, published in a journal with limited reach, and wither on the vine," he says.

"They never make the jump to commercialisation, which is the other 90% of the work."

Jolly says there is little opportunity for the innovator inside a university

environment to benefit materially and financially from the commercialisation process. He believes some major structural changes are required to connect technology systematically to money and market.

It's not about direct grants and subsidies though.

"We need structural incentivisation with more aggressive concessional tax treatment and advantageous risk/reward structures for start-up entrepreneurs."

But commercialisation of research ideas is also a mindset – that both the money and the box matter and that by combining them, solutions to real problems can be delivered to the world.

Chartered accountants have a key role in that process, Jolly says, noting there are four key roles needed in development of a technology. The technical skills of the inventor, someone to raise capital, someone to run the day to day business and a marketer.

"CAs live and breathe business and finance. They naturally already carry half of the necessary skills."

SMS listed on the ASX on 24 March at a 30% premium in its IPO debut.

Jolly says the company is capitalised for growth, is attracting a range of new ideas, and will potentially diversify beyond shark technology into wider marine-related innovation.

There is evidence that shark attacks are increasing.

"We are seeing an escalation in global engagements between sharks and people," Jolly says. But his commercialisation efforts are helping ease the threat, at least in people's minds.

There is still an element of restlessness about Jolly. He expects to continue to innovate and commercialise ideas, a process he describes as "almost addictive".

But there is also a level of satisfaction, because he's finally worked out how to combine the money with the box.

"It's only later in my career I have been able to combine the two in a really comprehensive way. I'm finally on a path where investment, finance, tech, science and commercialisation is all coalescing in a really exciting way." ●

**BEN POWER** is a finance writer and communications consultant.



Hamish Jolly (right) and Craig Anderson (middle),  
co-founders of Shark Mitigation Systems with  
Bondi Lifeguard Bruce "Hoppy" Hopkins and the  
Clever Buoy on Bronte beach, Sydney.

