



Conservation News

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WESTERN AUSTRALIA

JULY 2004

New parks legislation introduced

LEGISLATION introduced into Parliament last month will pave the way for nine new national parks, significantly expand the existing Wellington National Park and create six new nature reserves and six new conservation parks in Western Australia's South West forests.

The Reserves (National Parks, Conservation Parks and Nature Reserves) Bill 2004, which will establish the new national parks and other reserves, fulfils part of the Government's commitment to create 30 new national parks in WA's South West.

This will see the State's conservation reserve system expanded by almost 120,000 hectares and the size of Wellington National Park increased by more than 14,400 ha.

Environment Minister Dr Judy Edwards held a function earlier this month to thank the many people from various government agencies who worked to develop the Bill.

In particular, Dr Edwards acknowledged the work of staff from CALM's Corporate Headquarters, Sustainable Forest Management Division and Information Management Branch.

The contribution made by the Department of Land Information, Department for Planning and

Infrastructure and the Parliamentary Counsel's Office was also recognised.

These organisations played an integral role in the preparation of the Bill and mapping of the reserve plans to accompany it.

Dr Edwards said the new national parks would add to the State's conservation reserve system, which was already a significant drawcard for visitors and an integral part of regional economies.

"A study by the Cooperative Research Centre for Sustainable Tourism found that 88 per cent of visitor expenditure in the southern forests is due to national parks and other forested areas," she said.

"This represents around \$61.9 million a year."

The nine new national parks are:

- Boorara-Gardner (11,008 ha);
- Jane (6863 ha);
- Boyndaminup (5439 ha);
- Greater Dordagup (6158 ha);
- Greater Beedelup (17,593 ha);
- Greater Kingston (21,092 ha);
- Forest Grove (1379 ha);
- Yelverton (729 ha); and
- Greater Preston (11,373 ha).

The Bill also included additions to the Serpentine and Mt Frankland national parks, the Lane Poole Reserve and Falls Brook Nature Reserve.

Path through the forest gets longer



CALM's Tracks and Trails Unit Project Officer, Elisa Skillen (left), went for an early morning ride along the Munda Biddi Trail with Premier Dr Geoff Gallop (centre), Environment Minister, Dr Judy Edwards (centre right), and students from Dwellingup Primary School. Photo courtesy of Alcoa.

STAGE One of the Munda Biddi Trail, from Mundaring to Collie, was officially opened last month at a celebration in Dwellingup.

Premier Dr Geoff Gallop, Environment Minister Dr Judy Edwards and Collie MLA Mick Murray were on hand to open the 330-kilometre stage of the three-stage trail that, when completed, will extend nearly 1000 kilometres from Mundaring to Albany.

At the opening Dr Gallop said the Munda Biddi Trail would capture what had become one of the fastest growing niche markets in the world - cycle tourism.

"WA is well placed to capitalise on this growing tourism market as there are very few places in the world where you can safely cycle uninterrupted through the natural environment," Dr Gallop said.

The section from Mundaring to Dwellingup was opened in December last year and has already proved very popular with local, interstate and even overseas cyclists.

Dr Gallop said the cyclists attracted to the trail would be good for regional economies and the State Government

would continue to support similar, sustainable, projects.

"A world-class system of protected natural areas, recreational facilities and tourism attractions also meets the community's needs by providing a range of social, environmental, economic, health and heritage benefits," Dr Gallop said.

The trail has been made possible by funding from CALM's capital works program and a further \$220,000-commitment from CALM this financial year, as well as contributions from Alcoa, Lotterywest and the Munda Biddi Trail Foundation through their Trails Funding Program, in association with the Department of Sport and Recreation.

The Munda Biddi Trail has also received support from the Department of Justice through the Karnet Prison Farm, which made a considerable contribution of in-kind services.

Eighty-two members of the 25th Reserve Squadron of the Royal Australian Airforce also donated their time last year clearing trails and building the Bidjar camp-site.

New incentives guide



CALM's Ken Atkins (centre) and the Department of Environment's Megan McGuire (left) were pictured with Environment Minister Dr Judy Edwards at Herdsman Lake Regional Park last month at the launch of the *Biodiversity Incentive Programs in WA* booklet.

The booklet, designed for landowners and community groups interested in conservation, draws together the many and varied incentive programs offered by a wide range of government and non-government organisations.

It covers labour programs, land sales, legal protection, management agreements and training, as well as financial and technical assistance.

The booklet was a collaborative effort by staff from the Department of Environment, CALM, the Department of Agriculture, the National Trust of Australia (WA), the World Wide Fund for Nature and Greening Australia WA.

Biodiversity Incentive Programs in WA is available from the Department of Environment, CALM and the Department of Agriculture. It also is available on CALM's NatureBase website at www.naturebase.net.

Regional managers head to Jurien Bay

JURIEN Bay played host recently to CALM's Regional Services Division Senior Managers Group mid-year meeting.

Director of Regional Services Alan Walker, nine regional managers and other senior divisional staff met to discuss a range of issues affecting regional operations, including budgets, industrial matters, road classification, energy conservation and the Good Neighbour Policy.

CALM Executive Director Keiran McNamara and other directors also attended at various times to present sessions and take part in discussions. Moora District staff joined the group for dinner on the first evening.

A half-day field trip was included in the agenda and District Parks and Visitor Services Coordinator, Peter Fishwick and Nature Conservation Coordinator, Rebecca Carter, guided the group to Lesueur National Park and the Jurien Bay Marine Park to inspect opera-

tions and discuss key issues. Mining operations and the environmental impact assessment process for mining operations were also examined.

Rebecca said that when they planned the group's activities in the Moora District, they hoped to highlight issues that were specific to their area but that the managers could relate to their own regions.

"We received really good input and feedback from the managers on some of our issues, and their visit seemed to go really well," she said.

Reserves Officer Maria Lee, from CALM's Geraldton office demonstrated a new reserves database that has been developed and trialed in the Midwest Region.

Alan said that it was important for managers from other regions to see some of the initiatives and management issues being addressed in the Moora District.

Working Together

At the World Parks Congress in Durban in September 2003 one of the workshop streams focused on building broader community support for protected areas. Although here in Western Australia we do not face some of the issues that other communities do managing protected areas, such as armed conflict or broadscale poaching, several of the strategies discussed were relevant. We do need to be working with neighbours, reaching out to urban areas to ensure city dwellers value conservation areas and building constituencies from groups not having a natural affinity with our parks and reserves.

There are 11 million visits to protected areas in this State and some 6,100 registered volunteers who assist in managing, protecting and promoting them.

One initiative tried in various ways across the world and over the last few years in Victoria, and now other states of Australia, is to draw attention to the relationship between health of individuals and communities and engagement in activity in parks. The engagement is not only recreational activity but applied environmental work resulting in rehabilitation and restoration of parks and often the individuals participating. In Scotland and New Zealand there is a scheme where doctors prescribe volunteerism in parks.

We are shortly to introduce the "Healthy Parks Healthy People" concept to Western Australia to help the community appreciate how protected areas contribute to the health of individuals, families and the community, and likewise how they can be involved in contributing to the health of those areas.

Jim Sharp, Acting Executive Director



South West insects databased on BugBase



Tom Burbidge with one of 17,000 specimens that have been databased. Photo by Rhianna Mooney.

by Rhianna Mooney

INFORMATION about more than 17,000 beetle, wasp, timber borer, butterfly and moth specimens, as well as other insects from the South West, is now available from BugBase, a new database.

For the first time CALM's collection has been databased and been made accessible to the scientific community as well as the general public.

BugBase was made possible by a grant, awarded to the Western Australian Insect Study Society by the Gordon Reid Foundation for Conservation and Lotterywest.

Senior Technical Officer Tom Burbidge manages the collection, which is housed at the Kensington Research Centre.

Tom said he had been thinking about databasing the collection for many years but could not have done it without the grant.

"The grant provided three part-time staff, Kaye Veryard, Meriel Falconer and Evelyn McGough, based at the WA Herbarium to database the specimens during the past two years," he said.

"Pinned, wet, wood, herbarium and pictured specimens, compiled by two Department of Agriculture entomologists were databased using a Microsoft Access program."

Tom said forest entomologist Stephen Curry, who worked at the Department of Agriculture from 1965 to 1985, started the collection. The collection was transferred to CALM when Stephen retired in 1985 and

since then, the collection has continued to grow.

"The collection is a key resource about the biodiversity of insect fauna in WA's jarrah, karri, wandoo and tingle forests," he said.

"It will hopefully generate interest in the key role insects play in our forest ecosystem."

The database can be found at CALM's Science Division website (<http://science.wa.gov.au.au/bugbase>).

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Turtle centre opens at Ningaloo

A spectacular Ningaloo sunset and a rare shower of rain created the perfect setting for the recent opening of the Jurabi Turtle Centre.

But its fascination also appealed to thieves, who have since stolen the fox and seagull exhibits from the display cases. The thieves and the stolen items have not been found.

The new interpretive facility, located in the Jurabi Coastal Park adjacent to the Ningaloo Marine Park, was opened by Tourism Minister Bob Kucera.

The centre promotes conservation of threatened marine turtles that nest on Ningaloo's beaches and supports a sustainable ecotourism industry in the area.

The facility was designed by CALM's Recreation and Landscape Unit and consists of a timber-decked structure covered by shade sails, to resemble a turtle.

Exmouth District staff and the Interpretation and Visitor Information Unit worked together to produce a creative range of interpretive materials that inform visitors of turtle biology, threats, conservation measures and the correct way to observe nesting turtles without disturbing them.

The project is a joint venture between CALM and the Shire of Exmouth.

One of the most exciting aspects of the centre is that it has drawn together a wide

by Kate Macgregor

range of stakeholders, including government, community groups, Indigenous people and private enterprise.

Representatives from these groups worked together on the project and will continue to contribute to the centre's goals of promoting turtle conservation, supporting a sustainable wildlife-based tourism industry and enriching the experience of visitors to the area.



At the opening were (back row, from left) Roland Mau, Kate Macgregor, Tourism Minister Bob Kucera, Terry Harrington, Ben Fitzpatrick, Tony Howard and Arvid Hogstrom and (seated at front) Jennie Cary and Daniel Oades.

And, the challenge is on...

WITH two pythons in tow, Environment Minister Dr Judy Edwards delivered the message to Morley Primary School students that on-ground action for conservation can be fun and teach the importance of biodiversity.

But the squeals of excitement from the students at the sight of the snakes suggested they didn't need convincing.

Dr Edwards spoke to the students last month at a special assembly to launch the 2004 Biodiversity Conservation Campaigners Challenge, sponsored by Epic Energy, targeted at Years 5 to 7 and 8 to 10.

Dr Edwards encouraged students all over the State to take up the challenge and contribute to management ideas for a local conservation park or reserve, for their chance to win a share of \$8000 in prizes.

"We must find new ways, such as this challenge, to involve students while educating us all about biodiversity conservation," Dr Edwards said.

As conservation managers, students are encouraged to investigate an area's values and threats, campaign to raise awareness in their

school and community about how to conserve and protect its biodiversity and take on-ground action to alleviate a threat.

Morley Primary School will focus their conservation work on John Forrest National Park.

The challenge, which is curriculum linked, was developed by a team that included representatives from the Department of Education and Training, the Association of Independent Schools and the Catholic Education Office.

Each school that registers an expression of interest will be supported with advice from a CALM officer.

The challenge closes on 30 September 2004 and the winning entry will be awarded \$3000 as well as an overnight wildlife adventure at one of CALM's managed areas. There are two second and two third prizes of \$1500 and \$1000 respectively.

Challenge packs and further information are available from CALM's NatureBase website at www.naturebase.net/schools, by emailing CALM's Project Officer Cheryl Tonts (cheyrlt@calm.wa.gov.au) or visiting Epic Energy's website at www.epicenergy.com.au.



Dr Judy Edwards shows a Stimson's python to Year 7 Morley Primary School students (left to right) Kayla Gray, Caitlin Morgan and Anderson Ngo.

Volunteers plant critically endangered species near Ballidu

by Kate Roy-Chowdhury

FIVE enthusiastic Ballidu volunteers lent a hand for conservation recently when they helped plant 80 critically endangered phalanx grevillea plants on a site near the town.

There are less than 100 phalanx grevillea (*Grevillea dryandroides dryandroides*) left in the wild, in five populations.

CALM Translocation Project Officer Leonie Monks said translocation aimed to establish a new population of plants with local genetic variety.

The plants have been planted into an area of similar soil type and near a natural population of phalanx grevillea.

The plants growing in the wild are subject to threats such as salinity, road and rail maintenance and weed invasion, which place them at risk of extinction.

Volunteers Marianne and Geoff Hasson, Pam and Peter Toster and Jenny Latham worked together to plant and peg down wire guards around each plant to prevent grazing from kangaroos and rabbits.

"These plants will now be monitored every year to see how many have survived and whether they are producing seed and recruiting," Leonie said.

"Translocation is a relatively new conservation measure to guard against extinction, so we need to monitor sites to find out how successful this technique is and work out ways we can improve it in the future."

Walpole people have their say

LOCAL residents are having their say on the new proposed marine conservation reserve in the Walpole-Nornalup inlets.

In a new move, more than 30 locals and stakeholder representatives have joined a focus group to talk with CALM staff about the environment, recreation, livelihoods, tourism, business and other matters relating to the proposed reserve.

Stakeholder groups represented on the focus group include the Walpole Tourist Bureau, Timber Communities Australia, the Australian Anglers' Association, Recfishwest and the Walpole Nornalup and Districts Community Development Group, as well as several Government agencies, such as the Departments of Fisheries and Environment.

Three planning workshops have been held since December 2003 and a fourth will be held in August. An Indicative Management Plan for the

proposed reserve will be released for a three-month public comment period following the consultation process.

"This management plan is being developed very much through the community," said Marine Planning Officer Alan Kendrick, who is facilitating the planning in the area.

"Disseminating information and receiving feedback from the community is an important part of the process."

Alan said that unlike most planning processes that involve an advisory committee formally appointed by the Minister for the Environment, community consultation for the proposed Walpole-Nornalup inlets marine conservation reserve had been facilitated through an informal focus group.

"Basically, we invited all interested people and stakeholder groups to participate in planning for

the proposed reserve by joining the focus group," Alan said.

"We initially encountered considerable uncertainty in the community about what a marine conservation reserve was, and how it would affect the local community.

"This has changed considerably as the local community better understands their capacity to participate in planning for the proposed reserve, and to participate in managing it in the future.

"The Walpole-Nornalup inlet system is a remarkable part of WA, and making the area a marine conservation reserve represents the best way of ensuring its preservation as a special place for future generations.

"What's so interesting about this planning process is that the local community has a very strong sense of 'ownership' of the inlets, and is very passionate about their preservation."

India arrives at Monkey Mia

by Rhianna Mooney

MONKEY Mia's newest calf, India, has settled into its new environment as one of 10 regular beach-visiting dolphins.

India was born to Puck—one of Monkey Mia's second-generation, beach-visiting dolphins—in early May.

India's name was decided by a competition held by the Monkey Mia resort, with help from *Western Suburbs Weekly*, and represents its distinctiveness as an Indo Pacific bottlenose dolphin. India's sex is not yet known.

CALM staff had predicted that 27-year-old Puck would give birth to her seventh calf in the first two weeks of May this year because she was herded by the males of the beach-visiting group 12 months before.

"We can usually tell they're pregnant at about six months but we usually can't predict the dates as accurately as we did in this case," Monkey Mia Reserves Manager David Charles said.

"She was only herded once late in the November to mid-May breeding season."

Puck's sixth calf, Wada, born in late 2002, has not been seen since March 2003. It's assumed she was lost to predators.

David said March was often associated

with high rates of calf mortality and coincided with the high number of tiger sharks in the area.

As part of the strictly-controlled feeding regime, visitors were asked to abide by protocols to minimise any negative impact caused by human contact, including staying out of the water while Puck and India were at the beach for six weeks.



Puck shows off her new calf, India. Photo by Piero Checconi

Butterfly gardening

A newly-developed resource on gardening for butterflies is now available on CALM's NatureBase website.

Gardeners can use the information, which includes a printable quick-reference guide and pictures of 17 butterfly species, to identify butterflies that visit their garden and grow the particular plants on which each species breeds.

The website also includes information about the size of each species. Many are quite tiny, with wingspans of only two or three centimetres, but are nonetheless delightful to observe in the garden.

South-western Australia has 60 species of native butterfly, of which most are found in bushlands. About 10 species may enter your garden, no matter where you live in the South-West, being either common garden species or highly mobile. Another seven species may enter your garden if you live near bushlands where they occur.

The information was compiled by CALM's Senior Conservation-Estate Officer, Robert Powell and Senior Research Scientist Matthew Williams and formatted and put on the web by the Internet and Multimedia Coordinator, David Gough.

Matthew, who is studying for a PhD on the conservation of butterflies in Perth's bushlands, welcomes feedback from people who have butterflies breeding in their garden. Your information may help to improve the advice that can be given on this imperfectly known subject.

The web pages are available at www.naturebase.net/plants_animals/butterflies.

For they are jolly good fellows

CALM Senior Wildlife Officer (Nature Protection), Doug Coughran, and WA Herbarium Technical Officer, Amanda Spooner, were two of 11 West Australians who received a Churchill Fellowship this year.

As Fellows, they receive around \$20,000 for overseas study. The award commemorates Britain's war-time Prime Minister, Sir Winston Churchill.

Doug found out that he'd been awarded a Churchill Fellowship to travel to Massachusetts and Boston, to study techniques used in wildlife disentanglements just as he was finishing an epic whale rescue last month.

He will work with the Atlantic Large Whale Disentanglement Network, coordinated by the Centre for Coastal Studies.

"I received the call about the Churchill Fellowship just as we were packing up the gear from the operation to disentangle a pregnant humpback whale off the coast of Dongara, 360 kilometres north of Perth," Doug said.

"The whale was caught in craypot lines and had been reported by a crayfisherman."



CALM's Doug Coughran (centre) at a morning tea for the recipients, with Winston Churchill Memorial Trust's WA Regional Committee chairperson, Jane Brazier (right) and President of the Churchill Fellows Association WA, Chris Heaton (left). Photo by Rhianna Mooney.

by Rhianna Mooney

Doug said he and the other rescuers were elated when the whale finally swam away—a far cry from the emotion felt more than 12 years ago when they were forced to watch a whale struggle with a net and then swim away still entangled because of a lack of experience in disentanglements.

"Since then, CALM has become

Australia's leading expert in disentanglements and even provides training to the other States about ways to achieve best-practice outcomes for the rescue crew and the whale," he said.

"Now we've got to take it to the next level and there's a lot I can learn from experts overseas and bring back and pass on to my colleagues."

The Churchill Fellowship grant will make this possible.

Amanda also received a grant that she will use to travel to Sweden and the UK. She will locate and repatriate original plant specimens collected by Ludwig Preiss and Robert Brown during their early exploration of Australia.

Amanda said she hoped to bring back as many as 2000 specimens from these pioneer collections.

"They represent a priceless scientific heritage and have a valuable place in the history of our State," she said.

"Type specimens are critically important in establishing names for our plants and correct naming underpins conservation. Especially now that the south-west of WA is identified as one of the world's top 25 biodiversity hotspots for flora."

Amanda said the collection would be housed at the WA Herbarium and would be made available for scientific study and exhibitions. Information on the specimens will be made available on FloraBase.

Amanda said this information would not only benefit WA, but also the rest of Australia.

"We will be releasing information to the world," she said.

When announcing the awards, the Winston Churchill Memorial Trust's

WA Regional Committee chairperson, Jane Brazier, said each of the 2004 Fellows had an admirable passion for their work, which covered a broad range of social and environmental issues.

"We will be watching with interest the journey these recipients take in their wonderful diversity of passions," she said.

When the Fellowship winners complete their study trips, their reports will be published at www.churchilltrust.com.au so the wider community can benefit from the results of their studies.

"The impressive standard and wide variety of study undertaken by Fellows contributes to a valuable resource available on-line to all Australians," Jane said.



Amanda Spooner.

Campground hosts beat the winter blues

CANBERRA couple Brian and Marcia Withell have joined a growing band of semi-retirees to become CALM campground hosts, finding a great way to see WA and add something special to every traveller's visit.

They are enjoying a four-month stay in the Kimberley Region, with plans to return for five months next year.

Other campground hosts Don and Roberta Chandler, and John and Bernice Greenlees are in their second year with CALM, after enjoying it so much last year. Another couple, Norm and Gina Gregory, have been CALM volunteers in the past and are now campground hosts.

Many of CALM's 90 campground hosts come from Perth and head north to get away from the winter cold. All say it's the best few months they've spent and a great way to see different parts of WA.

"The smile on people's faces when they are greeted by a friendly host after a long drive, sometimes on a pretty rough road, handing out information about the parks is greatly appreciated by all," Community Involvement Coordinator Marg Buckland said.

Campground hosts are generally semi-retired couples, recruited from across Australia. They must be self-sufficient, provide their own vehicle, have their own camping gear (camper trailer/off road caravan/tent) and be able to work unsupervised and alone in remote areas around the State.

Those who spend time in the Kimberley

Region rotate and spend a month in Kurradjong and Walardi campgrounds in the Purnululu National Park (Bungle Bungles), the Wolfe Creek Meteorite Crater Reserve and the King Edward River Crossing.

Although King Edward River is not part of CALM's conservation estate, campground hosts are provided in conjunction with the Shire of

Wyndham East Kimberley and the Aboriginal Traditional Owners because of high visitor numbers to the Mitchell River National Park, where the Mitchell Falls are located.

Campground hosts look after the campgrounds, clean and maintain the facilities and dispense information to visitors. In addition, they help CALM rangers with some of their duties.



WA's campground hosts were pictured at a training day at CALM's Kensington offices recently. Photo by Sue McKenna.

Mosaic fire research in Frankland

by Tracy Peacock

CALM is set to embark on a fire mosaic research project, as an operational trial, in the Frankland District.

Frankland District Manager Peter Bidwell said the project was a collaboration between his district and the Science Division.

"The aim of the project will be to see whether a fine-grained fire-induced mosaic can be created by the frequent and targeted introduction of fire into the landscape," he said.

Peter stressed this did not mean frequent burning out of the landscape, but a regular burning of small patches within one larger landscape unit.

The burning will be mapped and monitored over time, along with monitoring of the effects of fire on targeted flora and fauna indicator species.

The first burning is expected to take place this spring.

He said the Walpole Wilderness Area Community Advisory Committee (WWACAC) had been briefed on the project.

"On a larger scale, the project will attempt to demonstrate that fire diversity can promote biodiversity and that by creating these small mosaics of fires, the risk of big, damaging wildfires can be reduced," Peter said.

CALM and Singleton students work together

STUDENTS from Singleton Primary School have carried out a botanical survey of 2000 square metres of Singleton Beach as part of a revegetation program.

They identified weeds and native plants and had them confirmed by the WA Herbarium before starting a native plant propagation program.

CALM presented reports and showed plant specimens based on the information collected by

By Margitta Docters van Leeuwen

the students, to the school at a special assembly. Students are committed to the program for another three to five years.

Singleton Primary School teacher, Kerry Brenton, approached CALM's Mandurah office in 2002, to suggest the revegetation program. The combination of Kerry's idea and passionate

CALM volunteer Jack Kelly, who is responsible for the Mandurah Regional Herbarium, was a huge success.

The removal of the weeds is the second stage of the program. This will be an enormous task and Jack and Kerry hope to start a fundraising project where the students will be sponsored for every weed removed. The students will use the weed Herbarium to identify which plants they can safely remove from their Singleton site.

Conservation briefs

Water flows in Lake Bryde improved

Water flows in the valley floor of the Lake Bryde Recovery Catchment will be significantly improved with the replacement of the culvert on the Pingrup-Newdegate road.

The work was carried out by CALM and the Shire of Kent because the culvert was identified as being too small and inefficient to accommodate water volumes.

The Lake Bryde Recovery Wetland Complex, encompassing about 140,000 ha in the Lockhart drainage system of the Avon, is recognised for its high natural diversity values.

Safety award

Despite having collectively worked more than 460,000 hours, 66 Woodvale Research Centre staff from the Science Division and WATSCU have achieved a four year lost time injury free period.

This achievement was formally recognised at this year's Science Division conference by CALM's Executive Director, Keiran McNamara.

The work of the permanent and consultant staff covers a range of projects and areas of the State. It is estimated that 115,000 kilometres are travelled each year.

Improved health and safety—including continuous improvements to procedure, on-going training, improved education and awareness, open communication channels, health and fitness activities, support from health and safety groups in CALM and support from Corporate Executive—is credited for this achievement.

Former director honoured

by Margitta Docters van Leeuwen

CALM's former Director of Research and Planning, and Chief of the Research Division in the Forests Department has been honoured at a ceremony held in June.

Dr Joe Havel's exceptional leadership and mentoring of scientists was recognised by naming a meeting room in the Kensington Research Centre after him.

Joe was born in 1930 in Stehelceves, Czechoslovakia. He came to WA as an indentured labourer in 1948, and fell in love with the forests while working at a sawmill and with forestry gangs in the South-West.

Turning his passion into knowledge, he became a forestry student while working in karri forests, and pinaster pine plantations north of Perth from 1951 to 1953.

After his graduation in 1955, he spent 10 years in Papua New Guinea, returning to the public service in WA in 1965 until his retirement in the mid 1980s.

Joe gained his PhD from Murdoch University in 2000.



Joe Havel (centre) was pictured with Science Advisor and Senior Principal Research Scientist, Ian Abbott (left), and Director of Science Division, Neil Burrows (right). Photo by Glenda Lindsey.

Staff changes . . . Staff changes . . . Staff changes . . . Staff changes . . .

Contract

Sharon McKinnon, Officer, CALM Science; Catherine Vann, Marketing and Customer Service Coordinator, Strategic Development and Corporate Affairs; Dagmar Williams, Receptionist, Corporate Services Division, People Services Branch; Julie Patten, Reserves Officer, Goldfields Region, Kalgoorlie.

Promotion

Louise Oorschot, Finance and Administration Manager, Regional Parks; Marissa Maher, Indigenous Heritage Officer (Education), Indigenous Heritage Unit.

Permanent

Tilo Massenbauer, Conservation Officer Catchment, Esperance; Nicole Weber, Reserves Officer, Katanning.

Reclassification

Greg Durell, District Nature Conservation Coordinator, Narrogin.

Retired

Noel Nannup, Senior Aboriginal Heritage Officer, Indigenous

Heritage Unit.

Resignation

Christine McComb, Activity Support Officer, Yanchep National Park.

Transfer

Robert Hagan, Coordinator Management Systems, Bunbury to Kensington.

Temporary transfer

John Fishwick, Fire Operations Officer, FPC Manjimup to CALM Manjimup.

Temporary deployment

Jacqui Maguire, Nature Conservation Officer, Corporate Executive to Swan Coastal.

Contract ceased

Kirstan Pearce, Project Officer, Broome; Krisian Rodrigues, Reserves Officer, Karratha; Benjamin Bayliss, Project Officer, Natural Resources.