



Government of Western Australia
Department of Mines, Industry Regulation
and Safety

Calendar 2018



Geological Survey of
Western Australia





JANUARY 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
New Year's Day 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	Australia Day 26	27	28
29	30	31				



Geological Survey of
Western Australia



January
www.dmirs.wa.gov.au

*Amalgamated septarian nodules in lower Permian mudstone
of the glacial Nangetty Formation, Irwin River,
due east of Nangetty Homestead, northern Perth Basin*



FEBRUARY 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	 GSWA Open Day 23	24	25
26	27	28				

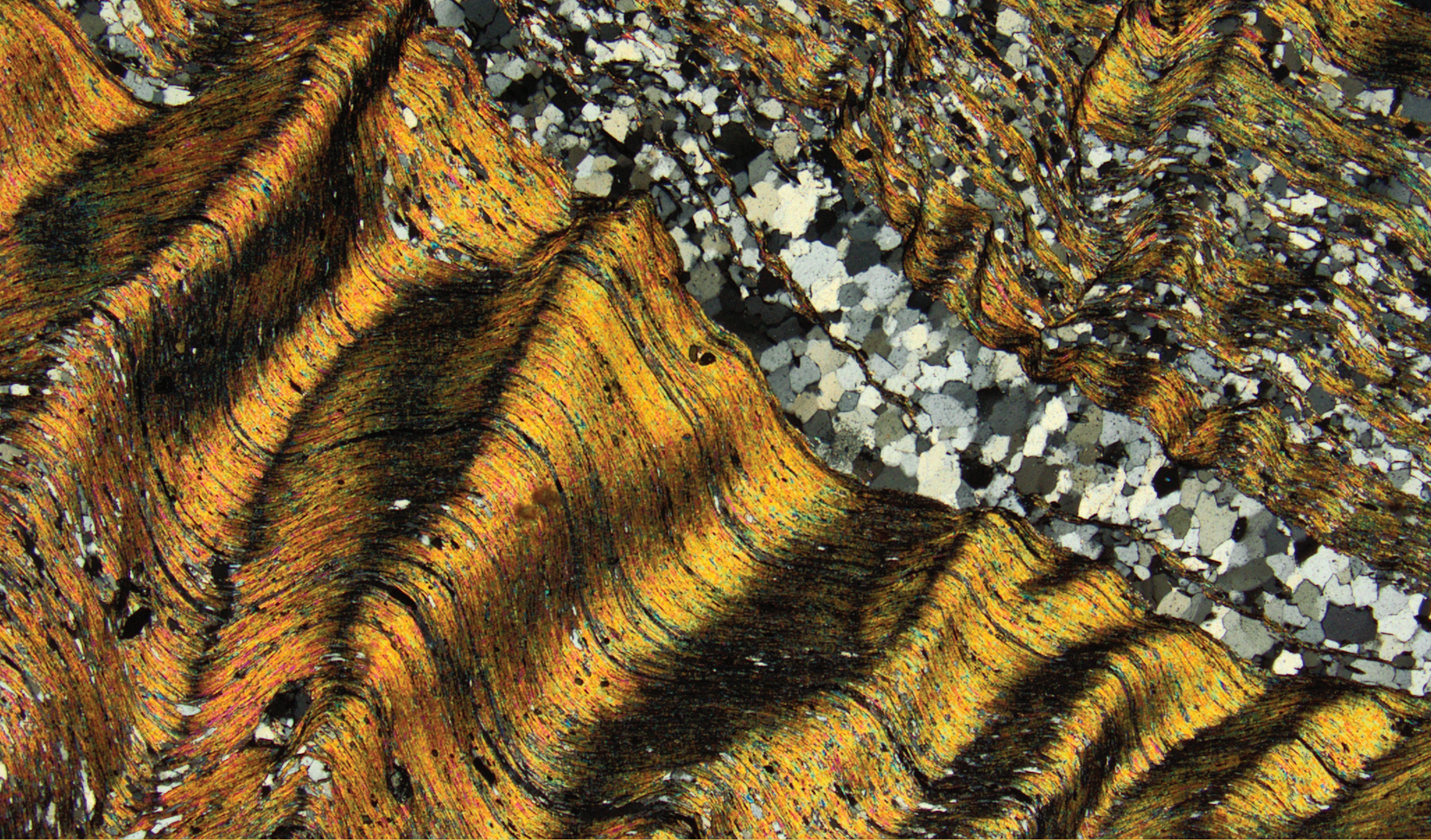


Geological Survey of
Western Australia



February
www.dmirs.wa.gov.au

*Leaning monoliths formed by weathering of granitic rocks
with a pervasive inclined foliation, King Leopold Orogen,
southwest Kimberley*



MARCH 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1	2	3	4
Labour Day (WA) 5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	Good Friday 30	Easter Saturday 31	



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March
www.dmirs.wa.gov.au

*Photomicrograph of crenulated muscovite-quartz schist,
King Leopold Orogen, Yampi Peninsula*



APRIL 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30						Geologists' Day Easter Sunday 1
Easter Monday 2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	Anzac Day 25	26	27	28	29



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April
www.dmirs.wa.gov.au

*A lightning strike near the drilling site of
petroleum exploration well Senagi 1 on
the Barbwire Terrace, Canning Basin*



MAY 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			



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May
www.dmirs.wa.gov.au

Stratabound MVT mineralization of rhythmically banded sphalerite (light coloured) and galena (dark blebs) from Cadjebut, hosted by the Devonian reef complexes of the Lennard Shelf (Canning Basin). The rhythmic banding probably results from multiple episodes of expulsion of comparatively low-temperature fluids



JUNE 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3
WA Day 4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	



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June
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*WA produced ~40% of the world's lithium in 2016.
Spiral classifiers at the Mount Cattlin mine, Ravensthorpe,
where Galaxy Resources Limited produces a spodumene
concentrate and a tantalum byproduct.
Photo courtesy Andrew McNeill, Geological Survey of Tasmania*



JULY 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29



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July
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*Geologists loving their fieldwork — joint excursion with
GSWA and industry geologists examining high-grade
metamorphic rocks in the west Musgrave Province*



AUGUST 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



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August
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*Weathered mass flow deposit, interpreted as a lahar,
at Painted Rocks, southeast of the Karari gold mine
in the Eastern Goldfields*



SEPTEMBER 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1	2
3	4	5	6	7	8	9
10	11	12	13	Petroleum Open Day 14	15	16
17	18	19	20	21	22	23
Queen's Birthday (WA) 24	25	26	27	28	29	30



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September
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Parakeelya (Calandrinia sp.) ruffled by the breeze, flanking granite pavements near Cootamarra Hill in the Murchison Goldfields, 85 km southwest of Mount Magnet



OCTOBER 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	International Women in Geoscience Day 18	19	20	21
22	23	24	25	26	27	28
29	30	31				



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October
www.dmirs.wa.gov.au

*Columnar jointing in Lower Cretaceous Bunbury Basalt,
overlain by sandstone of similar age, about 1.5 km
northwest of Black Point, southwest coast*



NOVEMBER 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1	2	3	4
5	6	7	8	9	10	Remembrance Day 11
12	13	GIS Day 14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

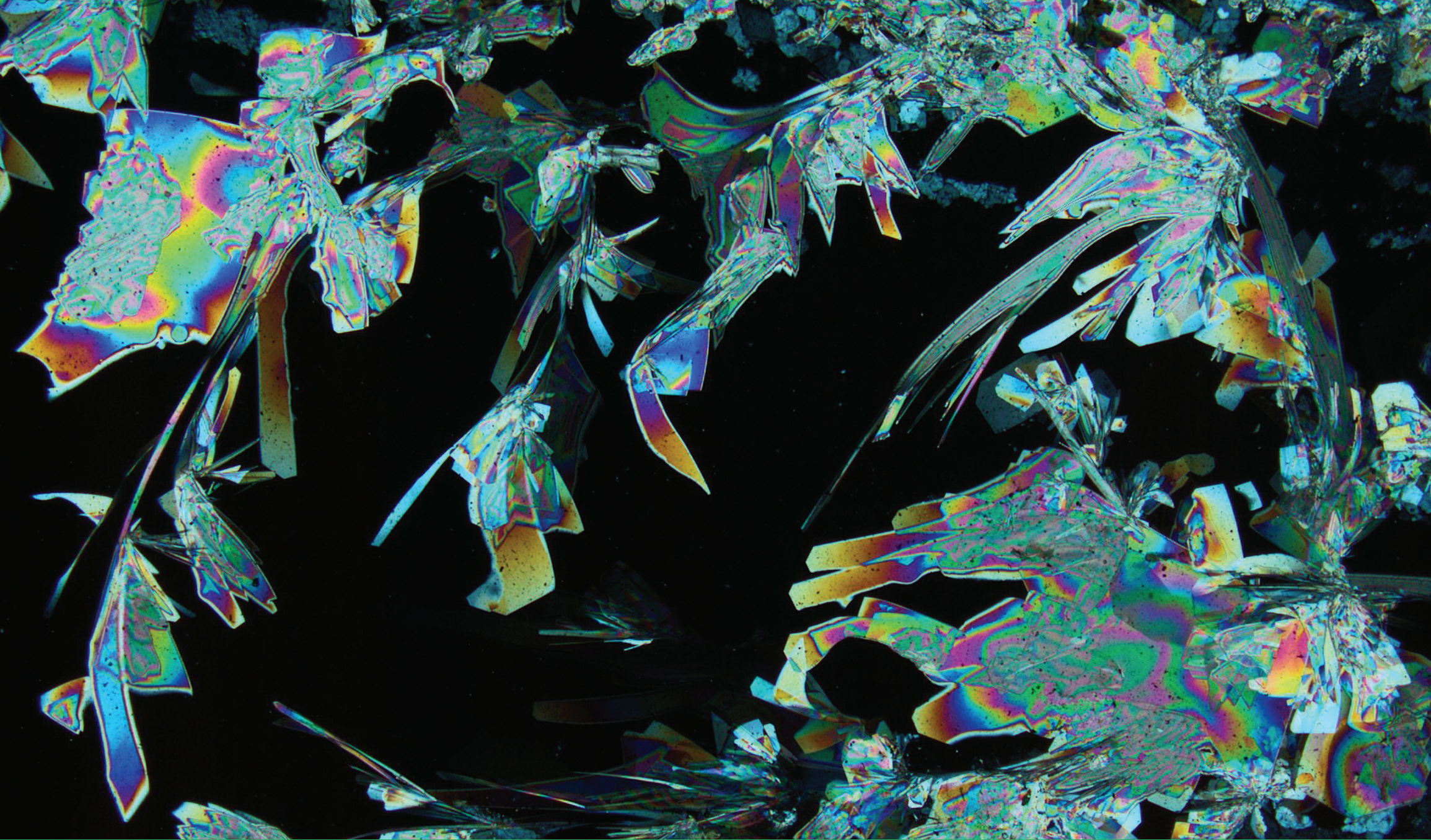


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November
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*Type section of the lower Permian Fossil Cliff Member
of the Holmwood Shale with the conformably
overlying High Cliff Sandstone in the lower part
of the far cliff; Irwin River, Coalseam Conservation Park*



DECEMBER 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
* Saint Barbara is the patron saint of miners						
31					1	2
3	St Barbara's Day* 4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	Christmas Day 25	Boxing Day 26	27	28	29	30



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December
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*Randomly oriented muscovite flakes seen under crossed polars,
from a recrystallized granite sampled near Mount Magnet,
in the Murchison Goldfields*

MINISTER FOR MINES AND PETROLEUM
Hon Bill Johnston MLA

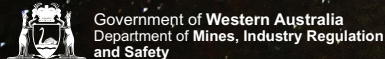
DIRECTOR GENERAL
DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
David Smith

EXECUTIVE DIRECTOR
GEOLOGICAL SURVEY OF WESTERN AUSTRALIA
Rick Rogerson

The Geological Survey of Western Australia (GSWA) is a Division of the Department of Mines, Industry Regulation and Safety. We carry out geoscientific studies that reveal the geological framework of Western Australia and the potential for mineral and energy resources. Our aim is to make Western Australia the preferred destination for local, national, and multinational explorers.

GSWA manages the Exploration Incentive Scheme (EIS), a State Government initiative to encourage exploration in Western Australia for the long-term sustainability of the State's resources sector. Most EIS activities are focused in underexplored greenfields regions.

For more information on EIS go to <www.dmp.wa.gov.au/EIS>.



The photographs for this calendar were taken by GSWA staff during our field activities that take us to remote and beautiful locations throughout the State. The following photographers provided the images:

Andrew McNeill (Geological Survey of Tasmania), Arthur Mory, Catherine Spaggiari, David Maidment, Ivan Zibra, Leon Normore, Peter Haines, Tim Ivanic, and Tom Lenane

Front cover image: Tumbled blocks and outcrop of sedimentary and basalt schist of the Malcolm Metamorphics, Point Malcolm, southern end of Israelite Bay, Nuytsland Nature Reserve

Back cover image: The joys of being a geologist! The heart of the Milky Way lights the night at a field camp



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This calendar is also available online at
<www.dmp.wa.gov.au/GSWApublications>

For details and purchase of geological publications and maps by the Geological Survey of Western Australia contact:

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