

COURSE CONTENT 2019

	Topic		9 am lecture		12 pm lecture	2-5 pm Laboratory	
10th July	Fault zones	L1	Fault zone structure and fault rocks	L2	Alpine Fault structure and microtectonics	FAULT ZONES 1: ALPINE FAULT DEFORMATION	SAFS
17th July	Fault zones	L3	Fault zone weakening and strengthening reactions 1	L4	Fault zone weakening and strengthening reactions 2	FAULT ZONES 2: FAULT ZONE STRENGTH	SAFS
24th July	Fault zones	L5	Metamorphic core complexes	L6	Oceanic core complexes	FAULT ZONES 3: METAMORPHIC CORE COMPLEXES	SAFS
31st July	Contact metamorphism	L7	Metamorphic facies	L8	Contact metamorphism 1: reactions	CONTACT 1: AUREOLES	JMS
7th August	Contact Metamorphism	L9	Contact metamorphism 2: Geothermal fields	L10	Contact metamorphism 3: pyrometamorphism	CONTACT 2: SKARNS Fri: Practical exam 1	JMS
14th August	Subduction zones	L11	Subduction factory 1: Low-PT subduction zones	L12	Subduction factory 2: serpentinites and melanges	SUBDUCTION 1: SHALLOW SUBDUCTION	SAFS
21st August	Subduction zones	L13	Subduction factory 3: Blueschist to eclogite facies	L14	Subduction factory 4: UHP metamorphism	SUBDUCTION 2: DEEP SUBDUCTION	JMS
MID-SEMESTER BREAK							
4th September	Regional	L15	Zeolite to greenschist facies, Haast Schist	L16	Greenschist to amphibolite facies, Alpine Schist & Greenland Group	REGIONAL 1: HAAST SCHIST	JMS
11th September	Regional	L17	Orogenic gold, ankerite	L18	Orogenic gold, Otago, Reefton	REGIONAL 2: GOLD	JMS
18th September	Regional	L19	Amphibolite to granulite facies, partial melting	L20	Granulite facies, Western Fiordland Orthogneiss	REGIONAL 3: GRANULITE FACIES	JMS
25th September	Regional	L21	Ultrahigh-temperature metamorphism	L22	Geothermobarometry & P-T-t paths	REGIONAL 4: P-T PATHS	JMS
2nd October	Metamorphic extremes		Shock metamorphism 1 - what is it?		No lecture!!!!	Wed: Practical exam 2	JMS
9th October	Metamorphic extremes	L23	Shock metamorphism 2 - recognising craters	L24	Shock metamorphism 3 - planets and moons	UPPER MANTLE	JMS