

REGENERATE 2020

“Building bottom line benefits through next level soil, plant, animal and human nutrition”.



Nicole Masters & Graeme Sait and global guest speakers

Join some of the world's powerhouses in Regenerative Ag for a unique and dynamic 5-day opportunity.

17th – 21st February, 2020

Tait Technology Centre, Christchurch, New Zealand

Discover how you can regenerate your land resources through a practical and theoretical immersive. This is essential training for food producers seeking a more profitable, productive and regenerative approach. Guaranteed to give you new insights and tools:

- Pest and disease management
- Optimising water and carbon cycles
- Human health
- Overcoming your land's biggest drags on performance
- Action plans
- Day 5: optional field day, visual assessments for plant and soil health

The Presenters

Nicole Masters is the Director of Integrity Soils, a soil ecologist, systems thinker and a qualified educator. Nicole has been involved in the regenerative ag industry since 2000. With a client base across North America and Australasia, she brings a wide range of tools to support farmer success. Her book *For the Love of Soil* is available on the 15th October.

Graeme Sait is the CEO and co-founder of Nutri-Tech Solutions (NTS), a world leader in sustainable agriculture. He is also an educator and author of popular book *Nutrition Rules!*. He created the Certificate in Nutrition Farming®, which has now extended the understanding of over 40,000 farmers, on four continents. Graeme is a sought-after speaker, specialising in soil, plant, animal and human health. More recently, that emphasis has expanded to include planetary health, in recognition of the profound link between soil humus and carbon sequestration.

Sign up now to be part of this extraordinary event with Nicole Masters and Graeme Sait.

Also including other outstanding regenerative ag guest speakers:



Loren Poncia

Stemple Creek Ranch, California
Sheep and Beef and
Composting



Peter Barrett

Linnburn Station, Ranfurly
Cover crop specialist,
Sheep & Beef



Grant Sims

Pine Grove
Victoria No-Till Chairman,
cropping, cover crops & more

Programme consists of: 4 days of classroom discussion & optional 1 day in the field.

Dates: Monday 17th – Thursday 20th February, 9:00am – 4:00pm
Friday 21st February, 9:30am – 3:30pm (*Field day available to 4-day attendees only*)

Cost: Early Bird Rate*: \$875pp for 4-day course + \$180 for optional field day
Workbook, Lunch and hot drinks included.

**Available until 30th November 2019. Regular Rate: \$975 + \$250 for field day.*

Venue: Tait Technology Centre, 245 Wooldridge Road, Christchurch

To Register Contact:

Michelle Pollock (Integrity Soils)
Email: admin@integritysoils.co.nz
Tel: +64 211136190





REGENERATE 2020 – Course Outline

Day One

Seminar 1 – The Anthropocene - Causes, Consequences & Solutions

We are in the midst of a perfect storm involving top soil loss, mismanagement of water, increasing chemical use, loss of biodiversity, an insect Armageddon, nitrogen abuse, rapid extinction and, of course, the spectre of climate change. However, challenges produce opportunities. In this fascinating presentation, you will discover multiple positive strategies to address this challenge, and you will understand the dynamics and rationale of Nutrition Farming®.

Seminar 2 – Regenerative Ag - Drivers for Change

What do you want for your operation? What questions bring you to this school? And what is an investment into vibrant healthy systems worth to you?

Seminar 3 – Mindsets & Paradigms - Enterprise Impacts

How paradigms and mindset influence the way we see the world, and the actions and outcomes that become possible.

Seminar 4 – Harnessing Humus

In this presentation we will consider the role of agriculture in climate change, the urgency of a viable game-plan to address global warming and the powerful link between soil biology and planetary health.

Seminar 5 – Putting Theories Into Practice - Case Studies

Hear how applying regenerative soil health approaches create efficient, profitable, resilient and enjoyable farming businesses.

Seminar 6 – Soil Therapy™ Explained - Mechanics of Mineral Management

Learn how to interpret a soil test. Recognise key mineral ratios and identify appropriate inputs best suited to your enterprise.

Seminar 7 – Limiting Factors - Minerals, Microbes, OM, Mindset or Management

By applying the 5M's to issues, identify what is putting a drag on your land, enabling you to take off the brakes. Creating low-input farming systems which work FOR you.

Seminar 8 – The Nitrogen Necessity - Optimising the Mismanaged Mineral

Nitrogen is the most abundant mineral in the plant and also the most mismanaged. It is a major contributor to greenhouse gases and waterway contamination, which is why we must learn to manage this mineral more effectively.



**Nutrition
Farming®**



REGENERATE 2020 – Course Outline

Day Two

Seminar 1 – Teaming with Microbes

Who are the major microbial players and what are their roles in soil? Delving into Viruses, Bacteria, Fungi, Protozoa and Nematodes.

Seminar 2 – Microbial Tests (Haney, PLFA & Direct Microscopy)

How to measure your biological livestock and avoid any sampling pitfalls. There are multiple laboratories with different testing methods. Learn what the pros and cons of these techniques are, and how these results can give you insights into the health of your land.

Workshop – Who Am I? (Microbes)

A team exercise to identify key microbes and their role in the soil food web.

Seminar 3 – Calcium, Boron, Silicon - Understanding the Protective Trio

Understand the significance of calcium, the single most important mineral for soil structure and plant resilience. Discover the critical influence of the two calcium synergists: boron and silicon.

Seminar 4 – Magnesium and Sulphur

Understand the significance of these minerals in soil, animal and human health. Magnesium is the central molecule in chlorophyll, the factory for the building block of all life. Sulphur is magnesium's sidekick and will also be discussed in depth.

Seminar 5 – Potassium and Sodium

Potassium is the second most abundant mineral in the plant and is the nutrient that has most impact upon plant yield. Sodium is generally only thought of when in excess and is not considered a plant essential element. Both K and Na work together in cells. Learn how to manage both minerals more efficiently.

Seminar 6 – Human Microbe Management

The 30-foot tube that is your digestive tract houses multiple microbes that determine your immunity, nutrition and wellness. Also learn how to make your own super-protective, fermented food.





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Day Three

Workshop – Microbes (major groups & what they do)

A fun review session to get us moving and connecting with our microbial underground livestock.

Seminar 1 – Monitoring Tools - The Key to Precision Nutrition

In this segment, you will discover the many benefits of in-field monitoring. Testing plant sap with a variety of hand-held monitoring tools can give you a much greater insight into the requirements of your crop. This allows the precision nutrition that is the essence of the Nutrition Farming® approach. Fingertip control of nutrition provides greater yields and less pest pressure.

Seminar 2 – Understanding Humates - The Importance of Humic & Fulvic Acid

Discover more about the intricacies of humic and fulvic acids, and learn how and why to use these invaluable inputs.

Seminar 3 – Practical Applications of Biological Inputs - Seed Physiology & Optimising Quorum Signals

Plants and microbes are in constant communication. What practical methods can we use to harness this communication, and how does this influence plant growth, health and resilience?

Seminar 4 – Mastering Micronutrients - Trace Mineral Nutrition

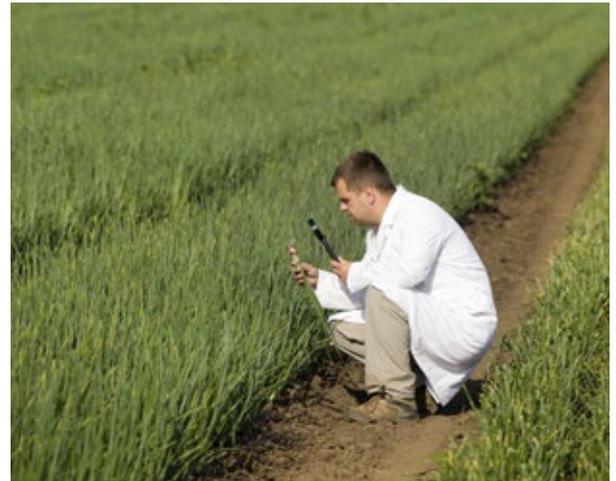
Unveiling the links to trace mineral nutrition in the soil, plants, animals and humans..

Seminar 5 – The Impact of Farm Chemicals on Plant Physiology & Epigenetics

What is the full cost of farm chemicals to you? What is epigenetics, and how does this impact on plant and animal performance? Hear some of the breakthrough research which shows that many ag-chem alter gene expression in plants, animals and us, putting systems onto a treadmill of increasing inputs and decreasing yields.

Seminar 6 & 7 – Seven Life-Changing Strategies (Parts 1 & 2)

Two 60-minute presentations that feature cutting-edge research and strategies to ensure a longer, healthier, happier life. Healthy farms need healthy farmers and these two invaluable presentations are designed to achieve that goal.





REGENERATE 2020 – Course Outline

Day Four

Seminar 1 – Foliar Fertilising - The Power of Direct Inject

Foliar fertilising provides a direct nutrition route into the plant. In this seminar, you will explore the many benefits of this technique.

Seminar 2 – Phosphorus - What Drives Efficacy?

Covering the soil and plant dynamics of phosphorus. This mineral is a key player in photosynthesis, disease protection and the flavour of fresh food. How do we optimise the P cycle?

Workshop – Whodunnit Game (Monitoring Tools)

In-field monitoring allows the precision nutrition required for high production agriculture. This workshop involves developing an understanding of the interplay between various monitoring tools.

Seminar 3 – Missing Minerals (Human Health)

In this Human Health segment, we will consider the critical importance of the four minerals that are most often missing. These include magnesium, zinc, silicon and iodine.

Seminar 4 – Plant Therapy™ Workshop - Leaf Analysis and ‘The Big Four’

Discover how to interpret leaf test results and how to choose the correct inputs to optimise your crop quality and yield.

Seminar 5 – Transitioning Profitability

Case Study: Ecology = Economics.
Optimising nutrition through the 5M's. Transition pitfalls to avoid, and strategies for confidence.

Seminar 6 – Key Biological Inputs - DIY Inoculums, Micronised Minerals, DIY Herbal Ferments

Here you will learn about on-farm production of your own living fertilisers. You will understand the logic behind the use of liquid micronized minerals, and there will be a focus upon DIY herbal problem solvers using lacto-fermentation.





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Day Five – FIELD DAY

1) Visual Assessments - What are the Key Visual Signs for Soil Health?

Quickly read your soil using below and above ground assessments. What do the visual signs tell you about microbiological activities.

2) Infiltration Test

Water is a crucial element for any production business, yet most properties have a broken water cycle, leading to land processes which swing from drought to flash flooding. Learn how to quickly (hopefully!) assess the efficacy of the water cycle on your land using easy-to-find materials.

3) The Magic & Myth of Cover Cropping

Cover cropping has become a phenomenon in regenerative agriculture. Discover several reasons to cover crop, six core strategies for success, glyphosate issues, including case studies.

4) Practical Solutions - Compost, Vermicast, Compost Slurry, Extracts & Teas

What is the difference between different biological applications and what considerations do you need to make when making and applying?

5) Monitoring Tools Demonstration including Microbe Testing, Potassium & Nitrogen Monitoring

In this on-farm workshop, you will discover the most effective strategies for in-field monitoring. This will also involve a demonstration of the exciting new microBIOMETER, where you can test soil life and monitor your progress.

6) The Dynamics of Diversity - The Potential for Multiple, Synergistic Enterprises

The central driving principle in Nature is diversity and there is much to learn from this perfect blueprint. Here, you will discover the benefits of functional diversity above and below ground. We will also discuss the potential of diversifying your farming enterprise to reduce dependence upon a fickle commodity market.

