

# Program



## SUNDAY 1 AUGUST 2010

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| <b>All day</b>    | Excursions – refer to website for full details – <a href="http://www.19wcss.org.au">www.19wcss.org.au</a> |
| <b>2:00</b>       | Registration opens – Brisbane Convention and Exhibition Centre – Foyer Level                              |
| <b>5:30 -7:30</b> | Welcome Reception – Exhibition Hall 1 BCEC – Foyer Level  |

## ORAL PROGRAM MONDAY 2 AUGUST 2010

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| <b>7:30</b>  | Registration open   |
| <b>9:00</b>  | Opening Ceremony – Great Hall   |
| <b>10:00</b> | <b>COFFEE BREAK</b>   |
| <b>11:00</b> | <b>Plenary Sessions</b>   |
| <b>12:50</b> | <b>LUNCH MEETINGS</b>   |
| <b>1:45</b>  | <b>Oral Symposia</b><br><b>4.2.1</b> Soil, energy and food security<br><b>2.3.1</b> The soil-root interface<br><b>3.1.2</b> Farm systems and environmental impacts<br><b>1.5.1</b> Quantitative monitoring of soil change<br><b>WG 3.1</b> Processes in acid sulfate soil materials<br><b>4.4.2</b> Attracting (young) people to a soils career   |
| <b>3:40</b>  | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>D 1.2</b> Modelling soil formation in time and space<br><b>1.5.1</b> Quantitative monitoring of soil change<br><b>1.5.2</b> Modelling critical processes in changing soil<br><b>2.3.1</b> The soil-root interface<br><b>2.3.2</b> Gene expression and proteomics in soil<br><b>3.1.1</b> Further development of soil evaluation methods<br><b>3.1.2</b> Farm systems and environmental impacts<br><b>WG 3.1</b> Processes in acid sulfate soil materials<br><b>4.2.1</b> Soil, energy and food security<br><b>4.2.2</b> Soil and water – global change<br><b>4.4.2</b> Attracting (young) people to a soils career<br><b>CS 3</b> Policies for soil health management in agriculture and protecting the environment |
| <b>4:25</b>  | <b>Oral Symposia</b><br><b>4.4.2</b> Soil and water – global change<br><b>2.3.2</b> Gene expression and proteomics in soil<br><b>3.1.1</b> Further development of soil evaluation methods<br><b>1.5.2</b> Modelling critical processes in changing soil<br><b>D 1.2</b> Modelling soil formation in time and space<br><b>CS 3</b> Policies for soil health management in agriculture and protecting the environment   |
| <b>6:30</b>  | <b>EVENING MEETINGS</b>   |

## ORAL PROGRAM TUESDAY 3 AUGUST 2010

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| <b>8:30</b>  | <b>Plenary Sessions</b>   |
| <b>10:00</b> | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>D 3.2</b> Nutrient best management practices<br><b>3.2.1</b> Highland agriculture and conservation of soil and water resources<br><b>3.2.2</b> Improved water and soil management using lysimeters<br><b>3.4.2</b> Management of water runoff from construction sites<br><b>WG 3.2</b> Forest soil processes and change<br><b>WG 3.3</b> Soils in urban and industrial areas  |
| <b>10:45</b> | <b>Oral Symposia</b><br><b>D 3.2</b> Nutrient best management practices #1<br><b>3.2.1</b> Highland agriculture and conservation of soil and water resources<br><b>CS 7</b> Soil carbon sequestration<br><b>WG 3.3</b> Soils in urban and industrial areas<br><b>WG 3.2</b> Forest soil processes and change<br><b>4.1.1</b> Valuing the soil's natural capital   |
| <b>12:40</b> | <b>LUNCH MEETINGS</b>   |
| <b>1:45</b>  | <b>Oral Symposia</b><br><b>D 3.2</b> Nutrient best management practices #2<br><b>4.1.2</b> Management and protection of receiving environments (Joint 4.3.1)<br><b>CS 4</b> Greenhouse gasses from soils<br><b>3.2.2</b> Improved water and soil management using lysimeters<br><b>1.1.1</b> Soil morphology and climate change<br><b>D 2.2</b> Management of landscapes for the future   |
| <b>3:40</b>  | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>1.1.1</b> Soil morphology and climate change<br><b>1.1.2</b> Soil morphology and environmental hazards<br><b>WG 1.3</b> Digital soil assessment<br><b>D 2.1</b> Wetland soils and global change<br><b>D 2.2</b> Management of landscapes for the future<br><b>4.1.1</b> Valuing the soil's natural capital<br><b>4.1.2</b> Management and protection of receiving environments (Joint 4.3.1)<br><b>4.3.1</b> Impacts of land-use change in (un) sustainable ecosystems (Joint 4.1.2)<br><b>CS 4</b> Greenhouse gasses from soils<br><b>CS 7</b> Soil carbon sequestration |
| <b>4:25</b>  | <b>Oral Symposia</b><br><b>D3.2</b> Nutrient best management practices #3<br><b>4.3.1</b> Impacts of land-use change in (un) sustainable ecosystems (Joint 4.1.2)<br><b>D 2.1</b> Wetland soils and global change<br><b>D 2.2</b> Management of water runoff from construction sites<br><b>1.1.2</b> Soil morphology and environmental hazards<br><b>WG 1.3</b> Digital soil assessment   |
| <b>6:00</b>  | Optional Brisbane BBQ, QLD Maritime Museum – South Bank   |
| <b>6:30</b>  | <b>EVENING MEETINGS</b>   |

## ORAL PROGRAM WEDNESDAY 4 AUGUST 2010

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| <b>8:30</b>  | <b>Oral Symposia</b><br><b>WG 4.1</b> Carbon sequestration on degraded lands<br><b>WG 3.5</b> Paddy soils and water scarcity<br><b>D 4.1</b> Why treat soils like dirt?<br><b>CS 1</b> The <i>GlobalSoilMap.net</i> project<br><b>CS 2</b> Soil Ecosystem Services<br><b>3.3.2</b> Molecular biology and optimizing crop nutrition  |
| <b>10:25</b> | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>D 4.1</b> Why treat soils like dirt?<br><b>1.2.1</b> Global soil spatial information systems<br><b>WG 1.4</b> Cold soils in a changing world<br><b>2.5.2</b> Bioavailability of metals and organics<br><b>3.3.2</b> Molecular biology and optimizing crop nutrition<br><b>WG 3.4</b> Global changes and soil salination<br><b>WG 3.5</b> Paddy soils and water scarcity<br><b>WG 4.1</b> Carbon sequestration on degraded lands<br><b>CS 1</b> The <i>GlobalSoilMap.net</i> project<br><b>CS 2</b> Soil ecosystem services<br><b>CS 5</b> Micronutrients in soils and plants in relation to crop and human health |
| <b>11:10</b> | <b>Oral Symposia</b><br><b>WG 1.4</b> Cold soils in a changing world<br><b>WG 3.4</b> Global changes and soil salination<br><b>1.2.1</b> Global soil spatial information systems<br><b>2.5.2</b> Bioavailability of metals and organics<br><b>CS 5</b> Micronutrients in soils and plants in relation to crop and human health<br><b>CS 8</b> Tertiary education in soil science  |
| <b>1:10</b>  | <b>LUNCH MEETINGS</b>   |
| <b>2:00</b>  | <b>Open Public Forum - refer to separate program handout for details</b>  |

## ORAL PROGRAM THURSDAY 5 AUGUST 2010

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| <b>8:30</b>  | <b>Plenary Sessions</b>  |
| <b>10:00</b> | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>1.3.1</b> Pedogenesis: ratios and ranges of influence<br><b>1.3.2</b> Geochronological techniques and soil formation<br><b>1.2.2</b> Soil geography and ecology<br><b>1.6.1</b> Impact of aeolian sediments on pedogenesis<br><b>1.6.2</b> Soils in limestone environments<br><b>2.2.1</b> Biogeochemical interfaces in soils<br><b>2.5.1</b> Extracellular proteins and nucleic acids in soil<br><b>WG 1.2</b> Architecture of soil structural diversity<br><b>WG 1.5</b> SOIL SENSE: rapid soil measurements<br><b>D 4.2</b> Soils and human health<br><b>4.4.1</b> Delivering soils information to non-agriculture users<br><b>4.5.1</b> Soil Science: history, philosophy and sociology<br><b>4.5.2</b> Soil and human culture |
| <b>10:45</b> | <b>Oral Symposia</b><br><b>1.6.2</b> Soils in limestone environments<br><b>WG 1.2</b> Architecture of soil structural diversity<br><b>WG 1.5</b> SOIL SENSE: rapid soil measurements<br><b>4.4.1</b> Delivering soils information to non-agriculture users<br><b>D 4.2</b> Soils and human health<br><b>1.2.2</b> Soil geography and ecology   |
| <b>12:40</b> | <b>LUNCH MEETINGS</b>  |
| <b>1:45</b>  | <b>Oral Symposia</b><br><b>3.3.1</b> Integrated nutrient management #1<br><b>2.2.2</b> Dynamics of organic material in soils #1<br><b>1.3.1</b> Pedogenesis: ratios and ranges of influence<br><b>4.5.1</b> Soil Science: history, philosophy and sociology<br><b>2.2.1</b> Biogeochemical interfaces in soils<br><b>1.6.1</b> Impact of aeolian sediments on pedogenesis  |
| <b>3:40</b>  | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>2.2.2</b> Dynamics of organic material in soils<br><b>3.3.1</b> Integrated nutrient management<br><b>3.5.2</b> Risk assessment and risk based remediation  |
| <b>4:25</b>  | <b>Oral Symposia</b><br><b>3.3.1</b> Integrated nutrient management #2<br><b>2.2.2</b> Dynamics of organic material in soils #2<br><b>1.3.2</b> Geochronological techniques and soil formation<br><b>4.5.2</b> Soil and human culture<br><b>2.5.1</b> Extracellular proteins and nucleic acids in soil<br><b>3.5.2</b> Risk assessment and risk based remediation  |
| <b>6:30</b>  | <b>EVENING MEETINGS</b>  |
| <b>7:00</b>  | <b>19th World Congress of Soil Science Gala Dinner</b>   |

## ORAL PROGRAM FRIDAY 6 AUGUST 2010

|              |  |
|--------------|--|
| <b>8:30</b>  | <b>Plenary Sessions</b>  |
| <b>10:00</b> | <b>COFFEE BREAK AND POSTER SYMPOSIA</b><br><b>1.4.1</b> Soil classification and information demand<br><b>1.4.2</b> Soil classification - benefits and constraints to pedology<br><b>2.1.1</b> Optimizing water use with soil physics<br><b>2.1.2</b> The physics of soil pore structure dynamics<br><b>D 3.1</b> Precision techniques for land use                       |
| <b>10:45</b> | <b>Oral Symposia</b><br><b>3.5.1</b> Heavy metal contaminated soils #1<br><b>2.1.1</b> Optimizing water use with soil physics<br><b>1.4.1</b> Soil classification and information demand<br><b>D 3.1</b> Precision techniques for land use<br><b>2.4.1</b> Soil minerals and soil sustainability<br><b>CS 6</b> Collaborative soil science in Australia                  |
| <b>12:40</b> | <b>LUNCH MEETINGS</b>  |
| <b>1:45</b>  | <b>Oral Symposia</b><br><b>3.5.1</b> Heavy metal contaminated soils #2<br><b>2.1.2</b> The physics of soil pore structure dynamics<br><b>1.4.2</b> Soil classification - benefits and constraints to pedology<br><b>WG 1.1</b> The WRB evolution<br><b>2.4.2</b> Soil minerals for uptake and control of contaminants<br><b>2.2.1</b> Biochemical Interfaces in the Soil |
| <b>3:40</b>  | <b>COFFEE BREAK &amp; POSTER SYMPOSIA</b><br><b>2.4.1</b> Soil minerals and soil sustainability<br><b>2.4.2</b> Soil minerals for uptake and control of contaminants<br><b>3.5.1</b> Heavy metal contaminated soils<br><b>WG 1.1</b> The WRB evolution   |
| <b>4:25</b>  | <b>Closing Ceremony</b>  |