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**2016-2017 Report and news** (September 2017)

Compiled by **Ecki Brockerhoff** (Coordinator Division 7) [Eckehard.Brockerhoff(a)scionresearch.com](mailto:Eckehard.Brockerhoff@scionresearch.com), **Elena Paoletti** (Coordinator RG 7.01 “Air Pollution and Climate Change”), **Tod Ramsfield** (RG 7.02 “Pathology”), and **Andrew (“Sandy”) Liebhold** (RG 7.03 “Entomology”)

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A note about Jolanda Roux who has resigned as coordinator of Research Group 7.02 (Pathology), and changes in the leadership of the Research Group

After serving as coordinator of Research Group 7.02 Pathology since 2010, Jolanda Roux has recently resigned from her role. During her time as Research Group coordinator, Jolanda facilitated many IUFRO pathology conferences as well as contributions to IUFRO congresses. In addition, Jolanda has been a committed advocate of fostering involvement and participation of researchers and students from Africa and other regions that are less well represented in IUFRO. She also oversaw changes in the leadership of working parties 7.02.01, 7.02.02, 7.02.06, 7.02.09, 7.02.10 and 7.02.11. Jolanda was also instrumental in the establishment of the new working party 7.02.13 “Forest Health in Southern Hemisphere Commercial Plantations”. Jolanda was recognized for her scientific achievements during the IUFRO World Congress in 2014 and she also received the Queen’s Award for Forestry in 2011. Jolanda had a large impact on the research group and we will miss her input.

The IUFRO Board has approved that deputy Tod Ramsfield will take over the coordinator role of RG 7.02. Beccy Ganley, Coordinator of Working Party 7.02.13 – Forest health in southern hemisphere commercial plantations, and Julio Diez Casero, Coordinator of Working Party 7.02.02 – Foliage, shoot and stem diseases, have agreed to serve as the new deputies. Tod, Beccy and Julio will serve in these roles until the end of the present term which concludes during the 2019 World Congress, although their appointments can be extended.

We would like to take this opportunity to thank Jolanda for her leadership and all of the work that she has done for IUFRO and our forest pathology community. We look forward to interacting with her in the future.

Ecki, Tod, Beccy and Julio

All-Division 7 (Forest Health) conference plans and changes

In 2016, much effort went into the planning and organisation of the All-Division 7 conference that was planned to take place from 25-29 April 2016 in Istanbul, Turkey. Unfortunately, we had to postpone and relocate the conference due to concerns about the security situation and cancellations of numerous participants. Nevertheless, we are most grateful to Yusuf Serengil (Coordinator or Working Party 7.01.08), the local organiser, who worked very hard to make the conference possible. We tried our best to proceed with the conference in Istanbul but unfortunately, this was not possible. In consultation with the Division 7 Research Group and Working Party coordinators, it was decided to hold the postponed all-Division 7 conference as an event within the 125th Anniversary Congress in Freiburg, Germany, in September 2017.

News from our Research Groups and Working Parties

**Research Group 7.01, Effects of air pollution and climate change on forest health**

**Coordinator** and deputies: **Elena Paoletti**, Andrzej Bytnerowicz, and He Shang

As usual, Research Group (RG) 7.01 has been very active in the last 18 months. A list of recent 7.01 meetings and meeting participations is given below. Officers of RG 7.01 organised five sessions at the IUFRO regional Asia Oceania congress in Beijing (October 2016) as well as six sessions at the 125th Anniversary congress in Freiburg (September 2017): Session 190 (Climate change and forest health: insights from the IUFRO Task Force), 161 (Combined and interactive effects of multiple stressors on forest health), 56 (Modern approaches in evaluating ozone impacts on forests), 136 (Hierarchical modelling framework to quantify and forecast climate change and air pollution impacts on forest ecosystems), 146 (Climate change and air pollution impacts on forest health status and productivity) and 191 (Nitrogen deposition: spatial-temporal change and ecological impacts).

Several changes in coordinators of RG 7.01 working parties occurred (see the list below). Two new WPs were approved at the D7 meeting in Beijing (IUFRO regional Asia-Oceania conference in 2016) and were established in 2017, with old and new officers: **WP 7.01.09** - Ground-level ozone, and **WP 7.01.10** - Nitrogen and sulfur deposition.

A newsletter is regularly circulated by the mailing list, see [www.iufro.org/science/iufro-mailing-lists/list-management/rg-701-forclimair/](http://www.iufro.org/science/iufro-mailing-lists/list-management/rg-701-forclimair/) and there is also social media activity. A Facebook group was launched in 2015 and at present it has 128 members, see [www.facebook.com/groups/959912024041551/?fref=ts](http://www.facebook.com/groups/959912024041551/?fref=ts)



Participants of the “Second Asia Air Pollution Workshop” (Working Party 7.01.02),

in Beijing, China, October 2016

**Past meetings of RG 7.01 (since mid-2016)**

**22-23 October 2016, Beijing, China**: **Working Party 7.01.02**, Second Asia Air Pollution Workshop. Contact: Zhaozhong Feng, fzz(a)rcees.ac.cn

**24-27 October 2016, Beijing, China**: IUFRO Regional Congress for Asia and Oceania (5 sessions). Contact: Elena Paoletti, elena.paoletti(a)cnr.it

**24 April 2017, Vienna, Austria**: T30 ERE3.6: The role of biomass in a sustainable bio-economy: implications for land use, climate and environmental services. Contact: Viktor Bruckman, viktor.bruckman(a)oeaw.ac.at

**Upcoming meetings of RG 7.01**

**19-22 September 2017, Freiburg, Germany**: 6 sessions at the IUFRO 125th Anniversary congress. Contact: Elena Paoletti, elena.paoletti(a)cnr.it

**22-26 October 2017, Fuchu, Tokyo, Japan**: 28th IUFRO conference for Specialists in Air Pollution and Climate Change Impacts on Forest Ecosystems: "Actions for Sustainable Forest Ecosystems under Air Pollution and Climate Change". Contact: Makoto Watanabe, iufro.tokyo2017(a)gmail.com

**21-25 May 2018, Florence, Italy**: International Conference on Ozone and Plant Ecosystems. Participation of **WPs 7.01.00, 7.01.02, 7.01.05, 7.01.09**. Contact: Elena Paoletti, elena.paoletti(a)cnr.it

Please contact us if we are not aware of any other upcoming meetings (that are not listed above). That will enable us to assist with getting them advertised on the IUFRO website and in our newsletters. Thanks!

**Research Group 7.02, Pathology**

**Coordinator** and deputies: **Tod Ramsfield**, Beccy Ganley, and Julio Javier Diez Casero

Despite the postponement of the All-Division 7 conference, where the Pathology Research Group had planned numerous contributions, there were still four successful conferences since last July (listed below), as well as several contributed sessions at the regional congress in Beijing last October.

There were a number of changes in the leadership of RG 7.02. After many years of service as coordinator of the research group, Jolanda Roux stepped down and Tod Ramsfield, the former deputy, took over as coordinator. Please note the separate section on Jolanda at the beginning of this newsletter (see above). In addition, Rebecca (Beccy) Ganley and Julio Diez Casero were appointed as research group deputies. Beccy is leader of WP7.02.13 and Julio is leader of WP 7.02.02.

At least five meetings of pathology working parties are planned in the next three years (see the list below), and a number of sessions organised by the research group will take place at the 125th Anniversary Congress in September 2017.

Tod Ramsfield produced a newsletters of RG 7.02 in December 2016, and another newsletter is planned to be shared via the ForPath listserver soon after the 125th Anniversary Congress in Freiburg. This newsletter will have more information and news about the pathology research group.



Participants of the meeting of **Working Party 7.02.02** “Foliage, Shoot and Stem Diseases of Forest Trees”, Niagara Falls, Ontario, Canada, May 2017.

**Past meetings of RG 7.02 (since mid-2016)**

**17-22 July 2016, Ashland, Oregon, USA**: "Mistletoes: Pathogens, keystone resource, and medicinal wonder". **Working Party 7.02.11** - **Parasitic flowering plants in forests**. <http://blogs.oregonstate.edu/mistletoe/> Contacts: brianna.beene(a)oregonstate.edu, dave.shaw(a)oregonstate.edu

**29 August - 2 September 2016, Seoul, South Korea**: “Pine Wilt Disease Conference 2016”. **WP 7.02.10** - **Pine wilt disease**. [http://www.pinewiltdisease2016.or.kr](http://www.pinewiltdisease2016.or.kr/) Contact: Katsunori Nakamura, knakam(a)affrc.go.jp

**24-27 October 2016, Beijing, China**: IUFRO Regional Congress for Asia and Oceania (several sessions).

**19-25 March 2017, Sapa, Vietnam**: Meeting of **WP 7.02.09** - **Phytophthora in Forests and Natural Ecosystems**. Contact: Giles Hardy, G.Hardy(a)murdoch.edu.au

**7-11 May 2017, Niagara Falls, Ontario, Canada**: Meeting of **WP 7.02.02 -** **Foliage, Shoot and Stem Diseases of Forest Trees**. Contact: Tod Ramsfield, Tod.Ramsfield(a)canada.ca

**Upcoming meetings of RG 7.02:**

**19-22 September 2017, Freiburg, Germany**: Sessions at the 125th Anniversary Congress,

**Session 300 “**Pine pitch canker - strategies for management of *Gibberella circinata* in greenhouses and forests (PINESTRENGTH)” **7.02.02 - Foliage, Shoot and Stem Diseases of Forest Trees**

**Session PS-170** “Understanding viruses in trees – promoting healthy plants in forest and urban open space.” **7.02.04 - Phytoplasma and virus diseases of forest trees**

**Session 305** “Pine wilt disease: progress in understanding the dynamics and developing control measures” **WP** **7.02.10 - Pine wilt disease**

**21-23 March 2018**, **Punta del Este, Uruguay**: "Improving forest health on commercial plantations”, First meeting of **WP 7.02.13** - **Forest Health in Southern Hemisphere commercial plantations**. March, 2018. [www.iufro2018puntadeleste.org](http://www.iufro2018puntadeleste.org). Contact: Gustavo Balmelli, gbalmelli(a)tb.inia.org.uy, and Beccy Ganley, beccy.ganley(a)scionresearch.com

**Mid-2018** (date and location to be determined): Viruses contribute to tree decline – experience and future concern. Workshop in summer 2018, **WP 7.02.04 - Phytoplasma and virus diseases of forest trees**

Contact: Carmen Büttner, carmen.buettner(a)agrar.hu-berlin.de

**May 2019, Tuscany, Italy**:Meeting of **WP 7.02.02 Foliage, Shoot and Stem Diseases of Forest Trees**. Contact: Giles Hardy, G.Hardy(at)murdoch.edu.au

**2019** (date to be determined), **Sardinia, Italy**: 9th Meeting of **WP** **7.02.09** - **Phytophthora in forests and natural ecosystems**. Hosted by Dr. Bruno Scanu – University of Sassari

**2019** (date to be determined), **Orléans, France**: Pine wilt disease conference, **7.02.10 - Pine wilt disease**

Please contact us if we are not aware of any other upcoming meetings (that are not listed above). That will enable us to assist with getting them advertised on the IUFRO website and in our newsletters. Thanks!

**Research Group 7.03, Entomology**

**Coordinator** and deputies: **Andrew (‘Sandy’) Liebhold**, Barbara Bentz, and Hervé Jactel

Three meetings of the Entomology Research Group were held since last July, in addition to several sessions at the Regional IUFRO Congress in Beijing in October 2016. At least six meetings are planned for the next few years (see the list below). The entomology research group is also well represented with several sessions at the upcoming All-Division 7 conference at the IUFRO 125th Anniversary Congress.

A number of changes of coordinators and deputies have occurred, and these are indicated in the list below.

Sandy Liebhold is planning the publication of a research group newsletter, and this will contain more news and other information about past and upcoming meetings and other matters relevant to the research group.



Participants of the IUFRO meeting on “Climate-induced range shifts in boreal forest pests and their ecological consequences”, July 2016, Québec, Canada (**Working Parties 7.03.05** “Bark and Wood Boring Insects”,

**7.03.07** “Population Dynamics of Forest Insects” and **8.01.06**)

**Past meetings of RG 7.03 (since mid-2016)**

**11 - 15 July 2016, Baie-Comeau, Sept-Iles, Quebec, Canada**: “Climate-Induced range shifts in boreal forest pests and their ecological, economic and social consequences”. **Working Parties 7.03.05** “Bark and Wood Boring Insects”, **7.03.07** “Population Dynamics of Forest Insects” and **8.01.06**. Contact: Pierre Godbout, [pierre.godbout(a)canada.ca](mailto:pierre.godbout@canada.ca) Website: <https://tinyurl.com/IUFROquebec2016>

**30 August 2016, London, UK:** “Human Dimensions of Tree Health & Plant Biosecurity Workshop: International Perspective”, **7.03.15 “Social dimensions of forest health”** <http://www.iufro.org/download/file/26139/5652/london16-report_doc> Contact: Mariella Marzano, mariella.marzano(a)forestry.gsi.gov.uk

**24-27 October 2016, Beijing, China**: IUFRO Regional Congress for Asia and Oceania (several sessions).

**11-15 Sept. 2017, Thessaloniki, Greece**: “Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring & Genetics”, **Joint 7.03.05 “Ecology and management of bark and wood boring insects” and 7.03.10 “Methodology of forest insect and disease survey “**,[http://www.iufrogreece2017.com](http://www.iufrogreece2017.com/) Contact: Dimitrios Avtzis, dimitrios.avtzis(a)gmail.com

**Upcoming meetings of RG 7.03:**

**18-22 Sept. 2017, Freiburg, Germany**

**Session 57**, “Invasive Alien Species and International Trade - Detection Prior to Introduction, Measures and Policy for Mitigation”, **WP 7.03.12 – “Alien Invasive Species and International Trade”**. Contact: Rene Eschen, R.Eschen(a)cabi.org

**Session 199**,“Effects of global change on Mediterranean forest insects and interactions with pathogens” **WP 7.03.14 - Entomological research in Mediterranean forest ecosystems**. Contact: Timothy Paine, timothy.paine(a)ucr.edu

**Session 208**, “Social and Economic dimensions of forest health: Contributing to a biosecure future”. **WP 7.03.15 - Social dimensions of forest health**. Contact: Mariella Marzano, mariella.marzano(a)forestry.gsi.gov.uk

**August 5-10, 2018, Mt. Sterling, Ohio USA**: “Tree resistance to insects and diseases: putting promises into practice”, **WP** **7.03.11 “Resistance to Insects and Pathogens”** jointly with 2.02.15 “Breeding and genetic resources of five-needle pines” and Task Force on Biological Invasions, <https://treeresistance2018.ca.uky.edu>. Contact: Caterina Villari, cvillari(a)uga.edu

**Autumn 2018** (date to be determined), **Izmir, Turkey**: **7.03.04 Diseases and insects in forest nurseries.** Contact: Audrius Menkis, audrius.menkis(a)slu.se

**2018** (date to be determined), **California**: **Joint meeting of WP 7.03.14 - Entomological research in Mediterranean forest ecosystems** and **7.03.06 “Ecology and management of forest defoliating insects”**. Contact: Timothy Paine, timothy.paine(a)ucr.edu

**Apil/May 2019** (date to be confirmed), **South Africa**: **WP 7.03.13** - **Biological control of forest insects and pathogens** (possibly jointly with WP 7.03.07). Contact: Brett Hurley, brett.hurley(at)fabi.up.ac.za

**September 2019, Suceava, Romania**: **WP 7.03.10** - **Methodology of forest insect and disease survey**. Contact: Mihai-Leonard Duduman, Stefan cel Mare University of Suceava, Forestry Faculty, Applied Ecology Laboratory

**2020** (date to be confirmed), **Krasnoyarsk, Russia**: **WP 7.03.07** - **Population Dynamics of Forest Insects**. Contact: Natalia Kirichenko, nkirichenko(at)yahoo.com

Please contact us if we are not aware of any other upcoming meetings (that are not listed above). That will enable us to assist with getting them advertised on the IUFRO website and in our newsletters. Thanks!

Newsletters and list-servers

Division 7 and our Research Groups produce newsletters on a regular basis, usually one or two per year. These can be found on the IUFRO website at the respective Research Group pages under “Publications & References”.

The **three list-servers of the Division 7 Research Groups (ForClimAir, ForPath, and ForEnt)** continue to enjoy much support from the community. Collectively there are about 1200 subscribers across the 3 list-servers:

* <http://www.iufro.org/science/iufro-mailing-lists/list-management/rg-702-forpath/>
* <http://www.iufro.org/science/iufro-mailing-lists/list-management/rg-701-forclimair/>
* <http://lists.iufro.org/mailman/listinfo/rg70300-forent>

There is also a Div. 7 list-server, <http://www.iufro.org/science/iufro-mailing-lists/list-management/div-7-list/>

Acknowledgements

We would like to thank all Working Party coordinators and deputies and other contributors to Division 7 activities. A special thanks also to our colleagues at IUFRO’s Secretariat in Vienna for their continued support and expert assistance.

Changes of coordinators and deputies in Division 7

Changes in coordinators since mid-2016. Changes are marked in red font. Coordinators are in **bold type**, deputies in regular font.

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| --- | --- | --- | --- | --- |
| **Unit** | **Unit name** | **Officers** | **email** | **Country** |
| **Div. 7** | **Forest Health** | **Eckehard Brockerhoff**  Andrew Liebhold  Elena Paoletti  Tod Ramsfield (new D) | **eckehard.brockerhoff(at)scionresearch.com**  aliebhold(at)fs.fed.us  elena.paoletti(at)cnr.it  tod.ramsfield(at)canada.ca | **New Zealand**  USA  Italy  Canada |
|  |  |  |  |  |
| **RG 7.01.** | **Impacts of air pollution and climate change on forest ecosystems** | **Elena Paoletti**  Andrzej Bytnerowicz  He Shang | **elena.paoletti(at)cnr.it**  abytnerowicz(at)fs.fed.us  shanghechina(at)126.com | **Italy**  USA  China |
| WP 7.01.01 | Detection and monitoring | **Algirdas Augustaitis**  Ovidiu Badea  Tomas Hernandez Tejeda  ~~Hiroyuki Sase~~ | **algirdas.augustaitis(at)asu.lt**  badea63(at)yahoo.com  hernandez.tomas(at)inifap.gob.mx  ~~sase(at)acap.asia~~ | **Lithuania**  Romania  Mexico |
| WP 7.01.02 | Genetic, biochemical and physiological processes | **Zhaozhong Feng**  ~~Gerhard Wieser~~  Elina Oksanen  Barbara Baesso Moura  Rakefet David-Schwartz | **zhzhfeng201(at)hotmail.com**  ~~gerhard.wieser(at)uibk.ac.at~~  elina.oksanen(at)uef.fi  bmourabio(at)gmail.com  rakefetd(at)agri.gov.il | **China**  ~~Austria~~  Finland  Brazil  Israel |
| WP 7.01.03 | Atmospheric deposition, soils and nutrient cycles | **Enzai Du (new C)**  **~~Mark Fenn~~**  Viktor Bruckman  Maliwan Haruthaithanasan | **enzaidu(at)bnu.edu.cn**  ~~mfenn(at)fs.fed.us~~  viktor.bruckman(at)oeaw.ac.at  aapmwt(at)ku.ac.th | **China**  ~~USA~~  Austria  Thailand |
| WP 7.01.05 | Modelling and risk assessment | **Alessandra De Marco**  Wim de Vries  ~~Steven McNulty~~  ~~Pierre Sicard~~ Yusef Omidi KhaniabadiHector Garcia GomezMakoto Watanabe | **alessandra.demarco(at)enea.it**  wim.devries(at)wur.nl  ~~steve\_mcnulty(at)ncsu.edu~~  ~~Pierre.Sicard(at)acri-he.fr~~ yusef\_omidi(at)yahoo.com  hector.garcia(at)ciemat.es  nab0602(at)cc.tuat.ac.jp | **Italy**  Netherlands  Iran  Spain  Japan |
| WP 7.01.07 | Multiple stressors on ecosystems | **Mikhail Kozlov**  Cristina Branquinho  Nurgul Karlioglu  Rocio Alonso | **mikoz(at)utu.fi**  cmbranquinho(at)fc.ul.pt nurgulk(at)istanbul.edu.tr rocio.alonso(at)ciemat.es | **Finland**  Portugal  Turkey  Spain |
| WP 7.01.08 | Hydroecology | **Yusuf Serengil**  Stanislaw Malek  Ursa Vilhar  Giuliana Zanchi | **yserengil(at)yahoo.com** rlmalek(at)cyf-kr.edu.pl ursa.vilhar(at)gozdis.si giuliana.zanchi(at)nateko.lu.se | **Turkey**  Poland  Croatia  Sweden |
| WP 7.01.09 | **Ground-level ozone** | **Pierre Sicard**  Evgenios Agathokleous Marisa Domingos | **Pierre.Sicard(at)acri-he.fr**  evgenios\_ag(at)hotmail.com mmingos(at)superig.com.br | **France**  Japan  Brazil |
| WP 7.01.10 | **Nitrogen and sulfur deposition** | **Hiroyuki Sase**  Steven McNulty | **sase(at)acap.asia**  steve\_mcnulty(at)ncsu.edu | **Japan**  USA |
|  |  |  |  |  |
| **RG**  **7.02** | **Pathology** | **Tod Ramsfield**  Rebecca Ganley  Julio Javier Diez Casero | **tod.ramsfield(at)canada.ca**  rebecca.ganley(at)scionresearch.com  jdcasero(at)pvs.uva.es | **Canada**  New Zealand  Spain |
| WP 7.02.01 | Root and butt rots | **Jonas Rönnberg**  H. Tuğba Doğmuş-Lehtijärvi | **jonas.ronnberg(at)slu.se**  tugba(at)orman.sdu.edu.tr | **Sweden**  Turkey |
| WP 7.02.02 | Foliage, shoot and stem diseases | **Julio Javier Diez Casero**  H. Tuğba Doğmuş-Lehtijärvi  Glen R. Stanosz | **jdcasero(at)pvs.uva.es**  tugba(at)orman.sdu.edu.tr  grs(at)plantpath.wisc.edu | **Spain**  Turkey  USA |
| WP 7.02.03 | Vascular wilt diseases | **Krystyna Przybyl**  C. Mohanan | **kmtprz(at)man.poznan.pl**  mohanan(at)kfri.org | **Poland**  India |
| WP 7.02.04 | Phytoplasma and virus diseases of forest trees | **Carmen Büttner**  Risto Jalkanen | **carmen.buettner(at)agrar.hu-berlin.de**  risto.jalkanen(at)luke.fi | **Germany**  Finland |
| WP 7.02.05 | Rusts of forest trees | **Pascal Frey** (now C)  **~~Richard Hamelin~~**  ~~Salvatore Moricca~~  Bruce Moltzan  Philippe Tanguay | **Pascal.frey(at)inra.fr** (new email)  **~~richard.hamelin(at)canada.ca~~**  ~~salvatore.moricca(at)unifi.it~~  bmoltzan(at)fs.fed.us  Philippe.Tanguay(at)RNCan-NRCan.gc.ca | **France**  **~~Canada~~**  ~~Italy~~  USA  Canada |
| WP 7.02.06 | Disease/environment interactions in forest decline | **Lori Eckhardt** | **eckhalg(at)auburn.edu** | **USA** |
| WP 7.02.07 | Diseases and insects of tropical forest trees | **Sri Rahayu**  Paul Bosu  Carlos A. Rodas | **tatarahayu(at)yahoo.com**  pbosu(at)csir-forig.org.gh  carlos.rodas(at)smurfitkappa.com.co | **Indonesia** Ghana  Colombia |
| WP 7.02.09 | Phytophthora diseases on forest trees | **Giles Hardy**  Susan Frankel  Matteo Garbelotto  Ellen Goheen  Thomas Jung  Andrea Vannini | **G.Hardy(at)murdoch.edu.au**  sfrankel(at)fs.fed.us  matteo(at)nature.berkeley.edu  egoheen(at)fs.fed.us  dr.t.jung(at)t-online.de  vannini(at)unitus.it | **Australia**  USA  USA  USA  Portugal  Italy |
| WP 7.02.10 | Pine wilt disease | **Christelle Robinet**  Luis Filipe Bonifacio  Hyerim Han  Katsunori Nakamura-Matori | **christelle.robinet(at)inra.fr**  luis.bonifacio(at)iniav.pt  hrhan123(at)korea.kr  knakam(at)ffpri.affrc.go.jp | **France** Portugal  Korea (Rep)  Japan |
| WP 7.02.11 | Parasitic flowering plants in forests | **David Shaw**  Simon Francis Shamoun  Marcelo Luis Wagner | **dave.shaw(at)oregonstate.edu**  simon.shamoun(at)canada.ca  mlwagner(at)ffyb.uba.ar | **USA**  Canada Argentina |
| WP 7.02.13 | Forest health in southern hemisphere commercial plantations | **Rebecca (Beccy) Ganley**  Rodrigo Ahumada  Angus Carnegie  Carlos Pérez | **rebecca.ganley(at)scionresearch.com**  rodrigo.ahumada(at)arauco.cl  angus.carnegie(at)dpi.nsw.gov.au  caperez(at)fagro.edu.uy | **New Zealand**  Chile  Australia  Uruguay |
|  |  |  |  |  |
| **RG 7.03** | **Entomology** | **Andrew Liebhold**  Barbara J. Bentz  Hervé Jactel | aliebhold(at)fs.fed.us  bbentz(at)fs.fed.us  herve.jactel(at)inra.fr | **USA**  USA  France |
| WP 7.03.01 | Cone and seed insects | **Thomas Boivin**  **~~Jean-Noel Candau~~**  Jianghua Sun | **thomas.boivin(at)avignon.inra.fr**  **~~jean-noel.candau(at)canada.ca~~**  sunjh(at)ioz.ac.cn | **France**  **~~Canada~~**  China |
| WP 7.03.02 | Gall-forming insects | **György Csoka**  Heikki Roininen, | csokagy(at)erti.hu  heikki.roininen(at)uef.fi | **Hungary**  Finland |
| WP 7.03.04 | Diseases and insects in forest nurseries | **Audrius Menkis**  Anna Hopkins | **audrius.menkis(at)slu.se**  A.Hopkins(at)murdoch.edu.au | **Sweden**  Australia |
| WP 7.03.05 | Ecology and management of bark and wood boring insects | **Martin Schroeder**  Juan C. Corley  Diana L. Six | **martin.schroeder(at)slu.se**  corley.juan(at)inta.gob.ar  diana.six(at)cfc.umt.edu | **Sweden**  Argentina  USA |
| WP 7.03.06 | Integrated management of forest defoliating insects | **Andrea Battisti**  Manuela Branco  Michael L. McManus | **andrea.battisti(at)unipd.it**  mrbranco(at)isa.ulisboa.pt  mlmcmanus(at)fs.fed.us | **Italy**  Portugal  USA |
| WP 7.03.07 | Population dynamics of forest insects | **Jean-Noel Candau**  **~~Richard Fleming~~**  Natalia Kirichenko  Lidia Sukovata | **jean-noel.candau(at)canada.ca**  **~~rich.fleming(at)canada.ca~~**  nkirichenko(at)yahoo.com  L.Soukovata(at)ibles.waw.pl | **Canada**  **~~Canada~~**  Russian Fedn.  Poland |
| WP 7.03.08 | Forest protection in Northeast Asia | **Zhong-qi Yang**  Naoto Kamata  Jong Kyu Lee | **yzhqi(at)caf.ac.cn**  kamatan(at)uf.a.u-tokyo.ac.jp  jongklee(at)kangwon.ac.kr | **China**  Japan  Korea (Rep) |
| WP 7.03.10 | Methodology of forest insect and disease survey | **Milos Knizek**  Wojciech Grodzki | **knizek(at)vulhm.cz**  W.Grodzki(at)ibles.waw.pl | **Czech Republ.**  Poland |
| WP 7.03.11 | Resistance to insects and pathogens | **Caterina Villari**  Daniel Herms  Maarit Kytö  Alvin Yanchuk | **cvillari(at)uga.edu**  herms.2(at)osu.edu  maarit.kyto(at)luke.fi  Alvin.Yanchuk(at)gov.bc.ca | **USA**  USA  Finland  Canada |
| WP 7.03.12 | Alien invasive species and international trade | **René Eschen**  Hugh F. Evans  Kenji Fukuda  Sankaran Kavileveettil | **r.eschen(at)cabi.org**  hugh.evans(at)forestry.gsi.gov.uk  fukuda(at)k.u-tokyo.ac.jp  sankarankv(at)gmail.com | **Switzerland**  UK  Japan  India |
| WP 7.03.13 | Biological control of forest insects and pathogens | **Marc Kenis**  Joseph Elkinton  Brett Hurley | **m.kenis(at)cabi.org**  elkinton(at)ent.umass.edu  brett.hurley(at)fabi.up.ac.za | **Switzerland**  USA  South Africa |
| WP 7.03.14 | Entomological research in Mediterranean forest ecosystems | **François Lieutier**  Ben Jamaa Mohamed Lahbib  Timothy D. Paine | **francois.lieutier(at)univ-orleans.fr**  benjamaa.lahbib(at)iresa.agrinet.tn  timothy.paine(at)ucr.edu | **France**  Tunisia  USA |
| WP 7.03.15 | Social dimensions of forest health | **Mariella Marzano**  Robert Haight  Tom Holmes  Carina Keskitalo | **mariella.marzano(at)forestry.gsi.gov.uk**  rhaight(at)fs.fed.us  tholmes(at)fs.fed.us  carina.keskitalo(at)umu.se | **UK**  USA  USA  Sweden |