



Pablo Martinez Ruiz del Arbol <pablo.martinez.ruizdelarbol@gmail.com>

[Posible Spam] FW: Technical Document on Muon Radiography

5 messages

FOULON, Francois <F.Foulon@iaea.org>

Mon, Apr 20, 2020 at 9:28 AM

To: Andrea Giammanco <andrea.giammanco@cern.ch>, Lee Thompson <l.thompson@sheffield.ac.uk>, "ralf.kaiser@glasgow.ac.uk" <ralf.kaiser@glasgow.ac.uk>, Lorenzo Bonechi <lorenzo.bonechi@fi.infn.it>, PROCUREUR Sébastien <sebastien.procureur@cea.fr>, Oleg <oleg.kamaev@cnl.ca>, "checcchia <paolo.checcchia@pd.infn.it> (paolo.checcchia@pd.infn.it)" <paolo.checcchia@pd.infn.it>, Pablo Martinez <parbol@ifca.unican.es>, "Martinez Ruiz Del Arbol, Pablo" <pablo.martinez@unican.es>, "konstantin.borozdin" <konstantin.borozdin@decisionssciencecorp.com>, Michael Tytgat <michael.tytgat@ugent.be>

Dear Colleagues,

I hope that my email finds all of you well and healthy in this difficult situation with the COVID19. We are all impacted by this unusual situation and way of organizing our work and activities.

Thus it is very understandable that the development of the TecDoc on Muon radiography is delayed.

At this stage the first draft of two sections have been established : **Industrial Applications** and **Nuclear Safeguards (Spent Fuel)**.

Here below is the table summarizing the content and contributors to this TecDoc on Muon radiography (Mines and Glaciers are still not fully "secured").

I suggest to target to have all contributions (first draft) by the 8th of May.

Could you **please confirm** by return email, in the table below, what is **the status of the section you are in charge and the expected date for finalization of the first draft**.

We noticed that Konstantin moved to another position and we do not have his actual email address. If some of you have it, hopefully Oleg, this will be helpful.

Provisional Sections/activity	Leading contributor / Contributors	Status
Introduction (incl. terminology, overview of methods)	Andrea / Lorenzo	
Civil Engineering	Lee / Chris, Ralf, Sebastien, Germano	
Industrial Applications	Pablo / Carlos, Jacques	Draft finalized, version 2
Nuclear Waste Characterisation	Ralf / Anna	
Mines	David – Amnon ? / Doug ? additional	
Volcanology - Natural Disaster Prevention	Lorenzo / Jacques, Domenico Lo Presti, Valeri Tioukov (about Stromboli), Giovanni Macedonio ?, Tanaka ?	One individual contribution form Domenico Lo Presti sent to Lorenzo
Glaciers	Andrea or David – Amnon ? Ryuichi Nishiyama r-nishi@eri.u-tokyo.ac.jp	
Archaeology	Sebastien / Lorenzo , Jacques	
Security applications (Borders and Facilities)	Konstantin / Oleg	
Nuclear Safeguards (Spent Fuel)	Paolo / Darius, Konstantin, Yang, Katharina	Draft finalized, version 1
Nuclear Material Control	Oleg / Konstantin	
Education	Ralf (potential Sebastien ?) / Konstantin, Michael, Oleg, Andrea, Lee	
Summary & Outlook (to contain other applications)	Ralf, Konstantin, Michael, Oleg, Andrea (leader to be defined later on)	
Overall editing	Ralf, Konstantin, Michael, Oleg, Andrea	

Thanks for your cooperation, stay healthy and best regards.

Francois

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Andrea Giammanco <Andrea.Giammanco@cern.ch>

Mon, Apr 20, 2020 at 9:43 AM

To: "FOULON, Francois" <F.Foulon@iaea.org>, Lee Thompson <l.thompson@sheffield.ac.uk>, "ralf.kaiser@glasgow.ac.uk" <ralf.kaiser@glasgow.ac.uk>, lorenzo bonechi <lorenzo.bonechi@fi.infn.it>, "sebastien.procedureur@cea.fr" <sebastien.procedureur@cea.fr>, Oleg <oleg.kamaev@cnl.ca>, paolo checchia <paolo.checchia@pd.infn.it>, Pablo Martinez <parbol@ifca.unican.es>, "Martinez Ruiz Del Arbol, Pablo" <pablo.martinez@unican.es>, "konstantin.borozdin" <konstantin.borozdin@decisionssciencecorp.com>, "michael.tygtat@ugent.be" <michael.tygtat@ugent.be>

Dear Francois, all,
the status from my side (Introduction): I am almost done with a first draft, but:

- for the moment I am recycling some illustrative figures by Lorenzo, originally used in the review that we coauthored with Raffaello D'Alessandro; if we understand correctly, it is not sufficient for a TecDoc to provide reference and reprinting permission from the editor, but we have to modify them, is that correct?

- I'd like to have some time to iterate on the text with Lorenzo and Raffaello, before circulating;

- I received a couple of nice paragraphs written by Jacques Marteau, originally intended to be included in "Industrial applications" but Pablo suggested to move them to the introduction because of their generality; I have to adapt them a bit though.

But all in all I think that 8th of May is an easy target for finalising the Introduction.

Best,
Andrea

Andrea Giammanco
<http://cp3.irmp.ucl.ac.be/Members/giammanco>
Phone: +32 10 473221 (UCLouvain), +32 493 581662 (mobile)

From: FOULON, Francois [F.Foulon@iaea.org]

Sent: 20 April 2020 09:28

To: Andrea Giammanco; Lee Thompson; ralf.kaiser@glasgow.ac.uk; lorenzo bonechi; sebastien.procedureur@cea.fr; Oleg; paolo checchia; Pablo Martinez; Martinez Ruiz Del Arbol, Pablo; konstantin.borozdin; michael.tygtat@ugent.be

Subject: FW: Technical Document on Muon Radiography

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FOULON, Francois <F.Foulon@iaea.org>

Mon, Apr 20, 2020 at 11:14 AM

To: Andrea Giammanco <andrea.giammanco@cern.ch>, Lee Thompson <l.thompson@sheffield.ac.uk>, "ralf.kaiser@glasgow.ac.uk" <ralf.kaiser@glasgow.ac.uk>, lorenzo bonechi <lorenzo.bonechi@fi.infn.it>, "sebastien.procedureur@cea.fr" <sebastien.procedureur@cea.fr>, Oleg <oleg.kamaev@cnl.ca>, paolo checchia <paolo.checchia@pd.infn.it>, Pablo Martinez <parbol@ifca.unican.es>, "Martinez Ruiz Del Arbol, Pablo" <pablo.martinez@unican.es>, "konstantin.borozdin" <konstantin.borozdin@decisionssciencecorp.com>, Michael Tygtat <michael.tygtat@ugent.be>

Dear Andrea,

Thanks for the update and good news regarding the overall progresses.

Regarding the figures, there are two approaches, use existing figures and getting the reprinting permission hopefully at no cost, or making new figures not to have any copyright issue.

If you have reprinting permission at not cost already then, 1st option is fine. If not second option is the easiest.

Thanks to all contributors and best regards

Francois

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[Quoted text hidden]

Kamaev, Oleg <oleg.kamaev@cnl.ca>

To: "FOULON, Francois" <F.Foulon@iaea.org>, Andrea Giammanco <andrea.giammanco@cern.ch>, Lee Thompson <l.thompson@sheffield.ac.uk>, "ralf.kaiser@glasgow.ac.uk" <ralf.kaiser@glasgow.ac.uk>, lorenzo bonechi <lorenzo.bonechi@fi.infn.it>, PROCUREUR Sébastien <sebastien.procedureur@cea.fr>, "checchia <paolo.checchia@pd.infn.it> (paolo.checchia@pd.infn.it)" <paolo.checchia@pd.infn.it>, "Martinez Ruiz Del Arbol, Pablo" <pablo.martinez@unican.es>, Konstantin Borozdin <sandia.rcenter@gmail.com>

UNRESTRICTED / ILLIMITÉE

Dear Francois,

For [Section 9](#), I have a preliminary draft with some input/suggestions from Chris Morris (LANL). I'll check with Konstantin and in any case should be able to provide August 10.

Regards,

Oleg

From: FOULON, Francois [<mailto:F.Foulon@iaea.org>]

Sent: Saturday, July 18, 2020 7:23 AM

To: Andrea Giammanco <andrea.giammanco@cern.ch>; Lee Thompson <l.thompson@sheffield.ac.uk>; ralf.kaiser@glasgow.ac.uk; Lorenzo Bonechi <lorenzo.bonechi@fi.infn.it>; Sébastien <sebastien.procedureur@cea.fr>; Kamaev, Oleg <oleg.kamaev@cnl.ca>; checchia <paolo.checchia@pd.infn.it> (paolo.checchia@pd.infn.it) <paolo.checchia@pd.infn.it>; parbol@ifca.unican.es>; Martinez Ruiz Del Arbol, Pablo <pablo.martinez@unican.es>; Konstantin Borozdin <sandia.rcenter@gmail.com>

Subject: [External] Technical Document on Muon Radiography

Dear All,

I updated the documents available in the shared folder as well as the table below (feel free to update the list of contributors).

I suggest to change the order of the sections to focus at first to applications not related to nuclear industry or material (end users less familiar with nuclear techniques) this approach.

Provisional Sections/activity	Leading contributor / Contributors
0. Foreword	
1. Introduction (incl. terminology, overview of methods)	Andrea / Lorenzo
2. Civil Engineering and Underground Applications	Lee / Chris, Ralf, Sebastien, Germano, David, Amnon, Jacques
3. Industrial Applications	Pablo / Carlos, Jacques
4. Geophysical Surveys and Natural Disasters Prevention_18-07-2020	Lorenzo / Jacques, Domenico Lo Presti, Valeri Tioukov (about Stromboli), Giovanni
5. Archaeology	Sebastien / Lorenzo , Jacques
6. Security applications (Borders and Facilities)	Konstantin / Oleg
7. Nuclear Waste Characterisation	Ralf /Anna
8. Nuclear Safeguards (Spent Fuel)	Paolo / Darius, Konstantin, Yang, Katharina
9. Nuclear Material Control	Oleg / Konstantin
10. Education ?	Ralf (potential Sebastien ?) / Konstantin, Michael, Oleg, Andrea, Lee
Summary & Outlook (to contain other applications)	Ralf, Konstantin, Michael, Oleg, Andrea (leader to be defined later on)
Overall editing	Ralf, Konstantin, Michael, Oleg, Andrea

For Sections 6,7,9 could you please confirm when the first draft can be provided, if possible by the 10th of August.

In parallel NSIL Team Assistant will combine the sections 0 to 5 in a single document.

We will still have to decide if a specific section should be dedicated to Education, any suggestion ?

Thanks for your cooperation and best regards.

Francois

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Konstantin Borozdin <sandia.rcenter@gmail.com>

Sun, Jul 26, 2020 at 9:59 AM

To: "FOULON, Francois" <F.Foulon@iaea.org>

Cc: Andrea Giammanco <andrea.giammanco@cern.ch>, Lee Thompson <l.thompson@sheffield.ac.uk>, "ralf.kaiser@glasgow.ac.uk" <ralf.kaiser@glasgow.ac.uk>, Lorenzo Bonechi <lorenzo.bonechi@fi.infn.it>, PROCUREUR Sébastien <sebastien.procureur@cea.fr>, Oleg <oleg.kamaev@cnl.ca>, "checcchia <paolo.checcchia@pd.infn.it> (paolo.checcchia@pd.infn.it)" <paolo.checcchia@pd.infn.it>, Pablo Martinez <parbol@ifca.unican.es>, "Martinez Ruiz Del Arbol, Pablo" <pablo.martinez@unican.es>

Dear Francois and Everyone,

We had a telecon with Oleg on Sections 6 and 9 last week. I sent my draft of Section 6 to Oleg and expect to get his draft of Section 9 within the next few days. We would like to get an input from Chris Morris as well.

We will then discuss the drafts and should be ready to send it to you before August 10. I apologize to everyone for falling behind, there have been many things happening this year, not the least of them a global pandemic, which is still ravaging the US and disrupts things that we considered to be 'normal'. In any case, I just wanted to share our status and confirm that I should be able to send you a draft of Section 6 with all contributions and also contribute to Oleg's Section 9.

Thank you,
Konstantin

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