AGREEMENT FOR JOINT RESEARCH DOCTORAL THESIS

The University of Florence, with headquarters at Piazza S. Marco 4, Firenze (Italy), fiscal code n. 01279680480, represented by the Rector Prof. Luigi Dei born in Florence on 10/06/1956;

and

The Vrije Universiteit Brussel, with headquarters at Pleinlaan 2, 1050 Brussels (Belgium), represented by the Rector Prof. dr. Caroline Pauwels born in Sint-Niklaas on 23/06/1964;

For the University of Florence (Law References):
- the law 210 of 3rd July 1998 art. 4 – dottorato di ricerca;
- the law 30th December 2010 n. 240, in particular Art. 19;
- the D.M. n. 45/2013 - “Regolamento recante modalità di accreditamento delle sedi e dei corsi di dottorato e criteri per l’istituzione dei corsi di dottorato da parte degli enti accreditati”;
- the D.M. 509/99 establishing rules regarding the didactic autonomy of the Faculties;
- the current "Regolamento di Ateneo" regarding the research doctorate;
- the "Consiglio di Amministrazione" and "Senato Accademico" resolutions from 30th September and 9th November 2005;
- the "Consiglio di Amministrazione" and "Senato Accademico" resolutions from 26th February and 12th March 2014;
- the statutes from the University of Florence;

For the Vrije Universiteit Brussel, (Law references):
- the Flemish Higher Education Code (Codex Hoger Onderwijs) of 20 December 2013;
• the Flemish Government’s decision of 11 June 2004 establishing the form of the diplomas and the content of the accompanying diploma supplement awarded by institutions of higher education in Flanders, and annexes 5 and 6 in particular;
• the Central Regulations regarding the Conferment of PhD degrees of the VUB, approved by the Academic Council on 5 October 2015;
• the Regulation on Valorisation of the VUB, approved by the Board of Directors on 2 June 2015;

subscribe an agreement of joint research PhD thesis for Dr. Andreu Carbó Molina, to establish and develop a scientific cooperation between Italian and Belgian research groups with International mobility of PhD students.

First Section – Administrative formalities

Art. 1.1.
Dr. Andreu Carbó Molina, with Spanish nationality, born in Barcelona on 17/06/1988, will be enrolled to a PhD Program in both Universities. The student is registered to the University of Florence as home institution (first head offices of enrolment) and to the University of Vrije Universiteit Brussel as second head offices. The official address (for correspondence) of the student is Cabrera, 18, 1-2. 08030 Barcelona, Spain. His e-mail address is andreucarbo@gmail.com.

Art. 1.2.
At the University of Florence, the enrolment will be made to the Doctoral Program in International Doctorate in Civil and Environmental Engineering cycle n. XXXI Curriculum. At the Partner University of Vrije Universiteit Brussel the enrolment will be made to the Doctoral Program in Engineering Sciences. Tuition and fees are paid to the University of Florence exclusively. Costs for student services may apply in the Partner University.
The enrolment will be effective after the signature of this agreement and it will be renewed every year in both Universities.

Art. 1.3
Insurance coverage will be guaranteed by both Universities according to the established agreement and the legislation in force in the respective countries. For additional risks not covered by insurance
as provided by law, the PhD student will subscribe a personal insurance (if any). The cost of medical coverage will be the responsibility of the PhD student according to legislation in force in the faculties' countries involved in this agreement.

**Second Section - Teaching procedures**

*Art. 2.1*

The research will be focused on Wind tunnel analysis on conventional small VAWT & Design of an innovative small VAWT optimized for urban flows.
The research will be coordinated
by Prof. Gianni Bartoli (Department of Civil and Environmental Engineering), at the University of Florence,
by Prof. Tim De Troyer (Department of Engineering Technology), at the Vrije Universiteit Brussel,
who engage to practice the function of tutors of the PhD student, which includes holding consultations when required so as to be able to assess the progress being made in the research project.

*Art. 2.2*

The PhD candidate shall spend alternate or consecutive research periods at both partner institutions. The research periods are to be agreed following consultation between the PhD candidate and the supervisors. The supervisors shall see to it that the PhD candidate spends a minimum of 6 months of research at each of the partner institution.

*Art. 2.3*

The thesis will be written up in English. An abstract of the doctoral thesis shall be supplied in Dutch and Italian.
The defence of the doctoral thesis will take place in English.

*Art. 2.4*

The public defence of the doctoral thesis shall take place at one of the partner institutions (in principle this is the home institution) but is recognised by all institutions involved.
In the present case the public defence will take place at the University of Florence.
Admission to public defence will be subjected to the positive evaluation of the thesis by two external reviewers, as required by Italian regulations.
Prior to the public defence a private defence will be organized at the Vrije Universiteit Brussel, as required by VUB's regulations.

Art. 2.5
The examination committee is nominated by Rector/President of the two Partner Universities and it is composed equally by a minimum of two members from each institution, including the supervisors, and a minimum of two external members.
Any contribution towards the costs related to periods of research spent at the partner institution, attendance of national and international conferences, the organisation of the PhD defence, and other costs specific to the PhD programme shall be discussed and determined in mutual agreement between the supervisors from the partner institutions.

Art. 2.6
Each of the two institutions commits to issue one PhD degree for the same thesis (double diploma), after positive evaluation is expressed into the examination committee report.
The University of Florence will confer the PhD graduation in International Doctorate in Civil and Environmental Engineering.
The Vrije Universiteit Brussel will confer the PhD graduation of Doctor of Engineering Sciences.
The awarded diplomas will mention the partnership with the other institution and the joint supervision of the thesis.

Section 3 - Conclusion

Art. 3.1
The PhD student should respect the regulations and practices of the host institution.

Art. 3.2
The formalities of presentation, deposit and reproduction of thesis will be made in each Country in accordance to legislation in force.
Copyrights of thesis, as well as publication, exploitation and protection of research results of the PhD student will be subdued to legislation in force and insured in accordance to specific procedures in each country involved in the agreement.
Art. 3.4
This agreement comes into force on the signature date of the legal representative of every contractor Institution and will be valid up to the ending of doctoral program.

Art. 3.5
This agreement is written up in five originals in English.

The stipulations of this agreement may not conflict with Italian regulations in force.
The stipulations of this agreement may not conflict with the provisions of the Central Regulations regarding the Conferring of PhD degrees at the VUB, nor with the supplementary faculty regulations in place at the VUB faculty where the PhD project takes shape.

In the event of conflicting stipulations the issue shall be solved by mutual consent.
This agreement shall obey the law of both sides. In case of dispute, this agreement shall be settled according to the legislation of the defending party.

Florence, 5 DIC 2016

For the University of Florence,
The RECTOR
Prof. dr. Luigi Dei

Brussels, 29/01/2016

For the Vrije Universiteit Brussel,
The RECTOR
Prof. dr. Caroline Pauwels

The Director of thesis/Tutor
Prof. dr. Gianni Bartoli

The Director of thesis/Tutor
Prof. dr. Tim De Troyer
The Doctoral Program Coordinator

Prof. dr. Fabio Castelli

The Dean of the Faculty of Engineering

Prof. dr. S. Caenepeel

Dean Faculty of Engineering

The PhD Student

Andreu Carbó Molina