

## NTC Program Progress Performance Report (PPPR) Information Form

### For P.I.'s Use

On a semi-annual basis the NTC sponsored P.I. must report Program Progress Performance Report (PPPR) using the format specified in this PPPR Information Form. The form must be submitted electronically to the corresponding NTC Associate Director by **9/15/2014**.

**Cover Period: 4/1/2014 – 9/15/2014**

| NTC Funded Project Information (Round/Year 1, 2013-2014) |   |
|--|---|
| University Name  |   |
| Project Title  | <b>Enhancing the Impact of the Freight Academy via Academic Collaboration</b> |
| Principal Investigator                                   | Mark L. Franz (University of Maryland)  |
| PI Contact Information                                   | mfranz1@umd.edu Tel: 301-314-0422   |

The form includes the following six parts:

- Part I – Performance Indicators
- Part II – Accomplishments: What was done? What was learned?
- Part III – Products: What has the program produced?
- Part IV – Participants & Collaborating Organizations: Who has been involved?
- Part V – Impact: What is the impact of the program? How has it contributed to transportation education, research and technology transfer?
- Part VI – Changes/Problems

*Supplementary documents/materials can be attached to this form with the submission.*

| <b>Part I – Performance Indicators</b>  |                             |
|---|-----------------------------|
| <b>Reporting Period</b>   | <b>4/1/2014 – 9/15/2014</b> |
| <b>1. Transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC</b> | N/A                         |
| Undergraduate courses   | N/A                         |
| Graduate courses  | N/A                         |
| <b>2. Students supported by this grant</b>  | N/A                         |
| Undergraduate students  | N/A                         |
| Masters students  | N/A                         |
| Doctoral students   | N/A                         |
| <b>3. Students participating in transportation research projects funded by this grant (but not supported by this grant)</b>   | N/A                         |
| Undergraduate students  | N/A                         |
| Graduate students   | N/A                         |
| <b>4. Students supported by this grant who received degrees</b>   | N/A                         |
| Undergraduate degrees   |                             |
| Masters degrees   |                             |
| Doctoral degrees  |                             |

**Part II – Accomplishments: What was done? What was learned?**

The information provided in this section allows the OST-R grants official to assess whether satisfactory progress has been made during the reporting period.

**Reporting Period** 4/1/2014 – 9/15/2014

**1. What are the major goals of the program?**

The National UTC aims to promote strategic transportation policies, investment, and decisions that bring lasting and equitable economic benefits to the U.S. and its citizens. The Center is concerned with the integrated operations and planning of all modes serving the nation’s passenger and freight transportation system, including the institutional issues associated with their management and investments. A balanced multi-modal approach will be used that considers freight and passenger travel mobility, reliability, and sustainability, as well as system operations during periods of both recurring and non-recurring incidents, including response to major emergencies. The modes in this theme include highway, transit, rail, and inter-modal interfaces including ports, terminals and airports. In particular, the center focuses on research, education, and technology transfer activities that can lead to (1) Freight efficiency for domestic shipping and for our international land, air, and sea ports; (2) Highway congestion mitigation with multi-modal strategies; and (3) Smart investments in intercity passenger travel facilities such as high speed rail. Major center activities are as following:

- **Advanced & Applied Research Promoting Economic Competitiveness:**  
Our research activities are multimodal/intermodal and multidisciplinary in scope, with the aims of addressing nationally and regionally significant transportation issues pertinent to economic competitiveness and providing practice-ready solutions.
- **Education, Workforce Development, Technology Transfer, & Diversity**  
The consortium is committed to providing high-quality transportation education and workforce development programs for a broad and diverse audience. Center’s efforts will support the development of a critical transportation knowledge base and a transportation workforce that is prepared to design, deploy, operate, and maintain the complex transportation systems of the future.

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| <p><b>2. What was accomplished under these goals?</b></p>   | <p>This technology transfer collaboration allowed the NTC to provide two program nominees from under represented regions of the US, access to one of the premier Freight Training Academy's. In addition, this project promoted the expertise of the NTC on national level, as Mark Franz and Dr. Paul Schonfeld assisted in the development and review of participant Capstone Projects.</p> |
| <p><b>3. How have the results been disseminated?</b></p>  | <p>This project is ongoing but will be completed in late November 2014. Once complete, recommendations will be incorporated into a proposal for 2015.</p>   |
| <p><b>4. What do you plan to do during the next reporting period to accomplish the goals? (10/1/2014 – 3/31/2015)</b></p> | <ol style="list-style-type: none"> <li>1. Complete the review of the 2014 Capstones.</li> <li>2. Generate final report on the overall experience and lessons learned from this technology transfer project.</li> </ol>  |

**Part III – Products: What has the program produced?**

Publications are the characteristic product of research projects funded by the UTC Program. OST-R may evaluate what the publications demonstrate about the excellence and significance of the research and the efficacy with which the results are being communicated to colleagues, potential users, and the public, not the number of publications. Many research projects (though not all) develop significant products other than publications. OST-R may assess and report both publications and other products to Congress, communities of interest, and the public.

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| <b>Reporting Period</b>   | <b>4/1/2014 – 9/15/2014</b>  |
| <b>1. Journal publications:</b>                                   | N/A  |
| <b>2. Books or other non-periodical, one-time publications</b>    | N/A  |
| <b>3. Other publications, conference papers and presentations</b> | N/A  |
| <b>4. Website(s) or other Internet site(s)</b>                    | N/A  |
| <b>5. Technologies or techniques</b>                              |  |
| <b>6. Outreach activities</b>                                     | This project promoted the freight expertise of the NTC to participants from across the US. |
| <b>7. Courses and workshops</b>                                   | N/A  |

|  |                    |
|--|--------------------|
|  |                    |
| <b>8. Inventions, patent applications, and/or licenses</b> | Nothing to report. |
| <b>9. Other products</b>                                   | N/A                |

**Part IV – Participants & Collaborating Organizations: Who has been involved?**

**OST-R needs to know who has worked on the project to gauge and report performance in promoting partnerships and collaborations.**

|   |  |
|---|--|
| <b>Reporting Period</b>                                       | <b>4/1/2014 – 9/15/2014</b>  |
| <b>1. What organizations have been involved as partners?</b>  | For this technology transfer project, UMD collaborated with the I-95 Corridor Coalition and other freight industry experts that assisted in the capstone mentoring and review process. |
| <b>2. Have other collaborators or contacts been involved?</b> | Dr. Paul Schonfeld of UMD and Ms. MaryGrace Parker of the I-95 Corridor Coalition were involved on this project.   |

**Part V – Impact: What is the impact of the program? How has it contributed to transportation education, research and technology transfer?**

- DOT uses this information to assess how the research and education programs:
- increase the body of knowledge and techniques;
  - enlarge the pool of people trained to develop that knowledge and techniques or
  - put it to use; and,
  - improve the physical, institutional, and information resources that enable those people to get their training and perform their functions.

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| <b>Reporting Period</b>   | <b>4/1/2014 – 9/15/2014</b>  |
| <b>1. What is the impact on the development of the principal discipline(s) of the program?</b>                                      | The collaboration of the NTC with the Freight Academy provided the opportunity for two students from underrepresented regions to participate in the Academy. As result, they can take their improved knowledge back to their agencies while promoting the expertise and impact of the NTC. |
| <b>2. What is the impact on other disciplines?</b>  | N/A  |
| <b>3. What is the impact on the development of transportation workforce development?</b>  | This project assisted in training some 40 freight professionals on the basic principles of freight management and analysis.  |
| <b>4. What is the impact on physical, institutional, and information resources at the university or other partner institutions?</b> | The experience learned from this collaboration may be used to establish guidelines for Universities to collaborate with both private and public sector professionals to create an enhanced work force development training program.  |
| <b>5. What is the impact on technology transfer?</b>  | Public agency freight professionals from across the US gained valuable freight training and general problem solving skills from their participation at the Freight Academy.  |



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|--|--|
| <b>6. What is the impact on society beyond science and technology?</b> | The efficient and safe movement of freight can have a positive impact on the US economy. The participants gained skills in managing, evaluating, and improving freight movement. |
| <b>7. Additional impacts</b>   | Efficient freight movement will also produce reduced environmental impacts.  |

**Part VI – Changes/Problems**

If not previously reported in writing to OST-R through other mechanisms, provide the following additional information or state, "Nothing to Report, if applicable:

|   |                             |
|---|-----------------------------|
| <b>Reporting Period</b>   | <b>4/1/2014 – 9/15/2014</b> |
| <b>1. Changes in approach and reasons for change</b>  | Nothing to Report.          |
| <b>2. Actual or anticipated problems or delays and actions or plans to resolve them</b>               | Nothing to Report.          |
| <b>3. Changes that have a significant impact on expenditures</b>                                      | Nothing to Report.          |
| <b>4. Significant changes in use or care of human subjects, vertebrate animals, and/or biohazards</b> | Nothing to Report.          |
| <b>5. Change of primary performance site location from that originally proposed</b>                   | Nothing to Report.          |