Piestar DPx

(EMULATING) TOM PARIS

IMPACT MODULES | CIMMER DEMO

DASHBOARD IMPACT MODULES PEOPLE REQUESTS PROJECTS SEARCH

Progress

46% Complete

Research Status Modules

- Background & Demographics
- Project Researchers
- **AOP Progress**
- Publications & Presentations 2
- Project Photos
- Supporting Documents

FtF Indicator Modules

- Policies
- Public-Private Partnerships
- Short-term Training
- Long-term Training
- Technology Transfer

Started
Completed

Strategic Plan

Click to edit each thrust and provide a progress report for each milestone you are responsible for.

Items to Report | My Other Items ?

Reported	#	Objective	Result Progress	
✓	1	STT1: Multiscale metal forming and replication	1 / 7 completed	Edit
No	2	STT2: Laser-based 3D Printing with Metals & Alloys	0 / 1 completed	Edit
No	3	Establish state-wide CIMM Central User Facilities (CIMM-CUF)	0 / 1 completed	Edit

Mark as Complete

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Edit Stategic Plan

Thrust 1

STT1: Multiscale metal forming and replication

For each result shown below, specify whether or not progress was made in the current reporting period, **October 1, 2016 – September 30, 2017**. If yes, provide a brief response to the associated questions about milestone progress and challenges. Additionally, specify whether or not the milestone has been completed.

Milestone 1.1

Y3: Meng, Sprunger: Acquire in-situ mechanical microprobe and couple to a UHV surface analysis system

Made Progress? No

Milestone 1.2

Y3 Meng, Schilling, LI: Demonstrate the capability of the mechanical microprobe by completing interfacial failure measurements on one system

Made Progress? No

Milestone 1.3

Complete

Y3 Ramachandran, Wick, Derosa: Computation of interfacial structure and properties (energy of adhesion, tensile strength) for additional metal/metal and one metal/ceramic interfaces

Made Progress? Yes

Key Activities

Timeline: Year 3
Responsible: Ramachandran, Wick, Derosa

Result & Activity Progress

sdgdsg

What progress have you made towards this result? Please reference specific key activities (see above) that you have performed or completed.

Challenges

adfdsafg

What are the challenges you have encountered?

Result Complete? Yes

Is this research result complete?

Milestone 1.4

Y3 Ramachandran, Wick, Derosa: Develop at least one force field by integrating and extending DFT and experimental data

Made Progress? No

Help

Milestone 1.5

Y3 Meng, Sprunger: Complete CVD/PVD system upgrade with integrated chemical characterization capabilities

Made Progress? No

Milestone 1.6

Y3 Moldovan, Herrington: Establish conventional plasticity model baselines and develop grain-level plasticity models and codes

Made Progress? No

Milestone 1.7

Y3: Voyiadjis, Meng: Develop strain gradient plasticity continuum models and their corresponding FEA implementation with explicit length scale parameters and calibrate with experiment for one simple geometry

Made Progress? No

Changes or Updates

Please indicate whether any changes or updates to this thrust have been necessary during this reporting period. Using the spaces below, please indicate what necessitated this change or update and why you feel it will strengthen the research project.

Thrust Changes? Yes

Have any changes or updates to this thrust been necessary during this reporting period?

Description

Please briefly describe the change or update.

Rationale

Why was this change or update necessary?

Key Achievements asfasfaf

What would you describe as your key achievement(s) during this reporting period?

Save Save Draft

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