

## **Project 301 – Microbiological corrosion of lean super hyper duplex austenitic stainless steels**

**Date:** 13 June 2017

**Time:** 3:30-4:20 p.m.

**Place:** Intercontinental St. Paul Riverfront, St. Paul, MN

### **Agenda:**

<b>Topic</b>	<b>Leader</b>	<b>Time (min)</b>
Introductions	Marcelo Senatore	5
Introduction of the project idea	Marcelo Senatore	15
Discussion	Marcelo Senatore	30
Path Forward	Marcelo Senatore	10
Adjourn		

Robert Sinko and Kevin Ganschow explained the history of project, which was started about 10 years ago. This project was abandoned in a few months for lack of meaningful results.

Katie Day led the discussion by asking which alloys need to be chosen for any experiments that are carried out in this project. Also needed are the choice of bacteria and temperatures. It was felt that individual members should do their ranking of the performance based on their own criteria. Benchmark for measuring performance is to be 316SST. Testing in the project to be lab first and to be verified in the field later. Coupons to be welded and 2" by 2". Study of the cross sections of the coupons to be considered. Metal candidates to be the following:

CD4MCU  
 CF8M  
 316L  
 254SMO  
 2507  
 2205  
 2304  
 2101 (FROM ATI AND OUTOKUMPU)  
 AL6XN  
 2003  
 2707  
 7MOLY

Marcelo Senatore suggested that an expert from Southwest Research be invited to the next TAC (San Antonio, TX in October 2017) to speak to project team. The objective would be to bring the members to speed in the state of the art of corrosion testing in microbiological environments. This was agreed to by the team. Marcelo gave Pradip the contact information at SWRI (Jim Dante).

**Action item: Pradip to send the invitation to that individual.**

**Action item: SPS is to be started by the project champion Katie Day.**

**Participants:**

<b>Company</b>	<b>First Name</b>	<b>Last Name</b>
AdvanSix	Edward	Spyhalski
Air Products	Jose	Ramirez
Chemours	Steve	Springer
Chevron	Kevin	Ganschow
Corrosion Materials	Jacob	Rodriguez
Dow Chemical Company	David	Barber
DuPont	Carlos	Hernandez
Eastman Chemical	Robert	Sinko
Hunstman	Nina	Young
Koch - Flint Hills		
Resources	Jeremy	Nelson
Koch Invista	Sean	Brossia
LyondellBasell	Scott	Dufault
MTI	Pradip	Khaladkar
Neotiss	Wendy	McGowan
Noram Engineering	Tony	Boyd
Outokumpu	Jim	Fritz
Praxair	Edward	Richey
RathGibson	Nicole	Karlen
Rolled Alloys	Rick	Duncan
RPS Composites	Bruce	Hebb
RPS Composites	Kira	Kaleps
Sabic	Ali	Alshawaf
Sandvik	Marcelo	Senatore
Sandvik	Katie	Day
Stress Engineering	Brian	Fitzgerald
Tricor Metals	Chuck	Young
Tricor Metals	Mike	Stitzlein
Victaulic	Wei	Wang
Webco	Bill	Bieber
Webco	Yong Joo	Kim