Improving Global Supply Chain Management

IPRO306: Mid-Term Review

Sponsor: Steven Rodgers
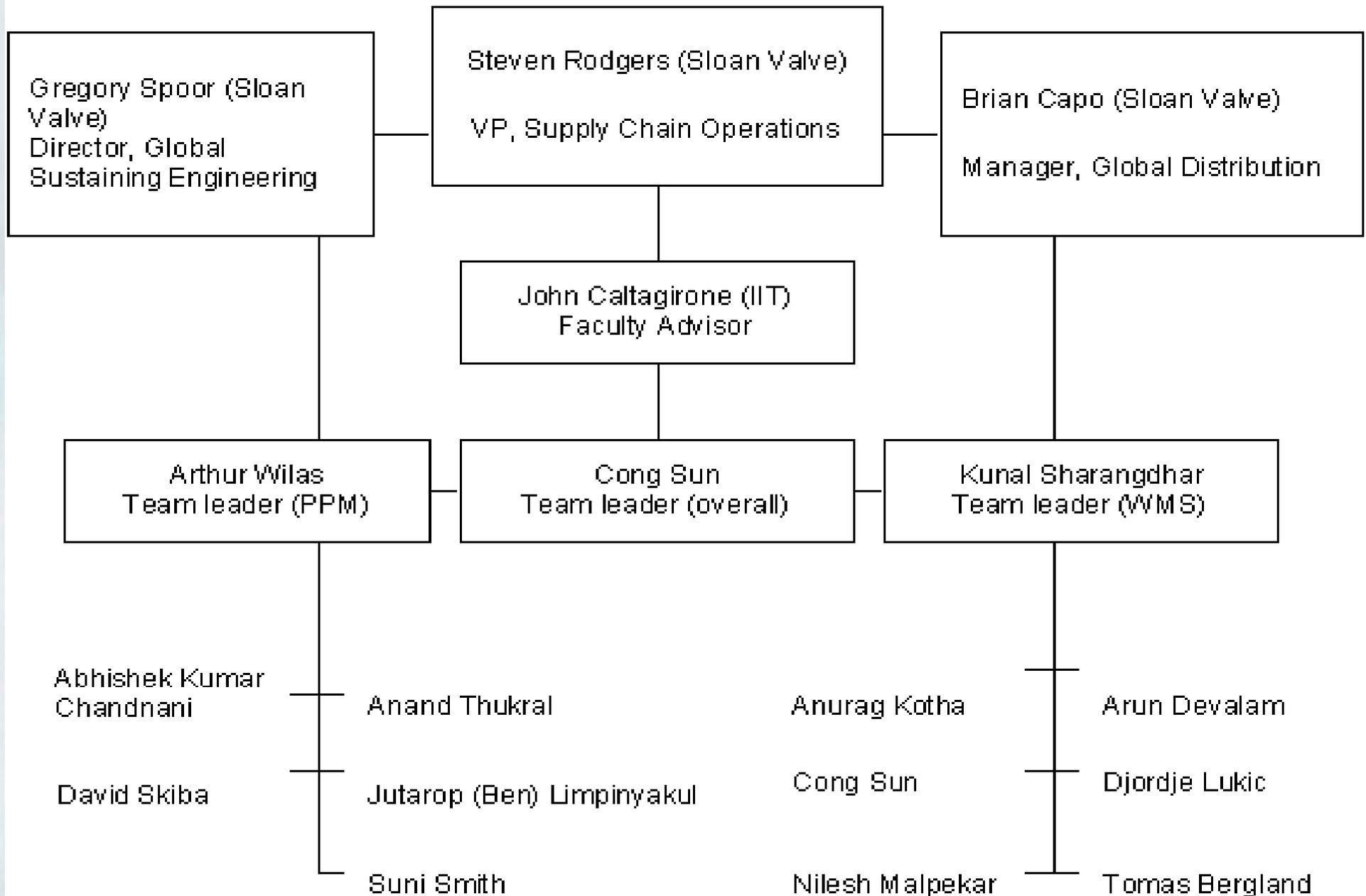
Faculty Advisor: John Caltagirone

ILLINOIS INSTITUTE OF TECHNOLOGY

IPRO 306:
- student-led group
- consultancy work
- customer: Sloan Valve Company
- 2 projects: PPM and WMS
- 2 sub-teams
- meeting weekly: info sharing, brainstorming

Team structure

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┌──────────────────────┐   ┌──────────────────────────┐   ┌──────────────────────────┐
│ Gregory Spoor (Sloan │   │ Steven Rodgers (Sloan    │   │ Brian Capo (Sloan Valve) │
│ Valve)               │───│ Valve)                   │───│                          │
│ Director, Global     │   │ VP, Supply Chain         │   │ Manager, Global          │
│ Sustaining Engineering│   │ Operations               │   │ Distribution             │
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John Caltagirone (IIT)
Faculty Advisor

Arthur Wilas	Cong Sun	Kunal Sharangdhar
Team leader (PPM)	Team leader (overall)	Team leader (WMS)

Abhishek Kumar Chandnani

Anand Thukral

Anurag Kotha

Arun Devalam

David Skiba

Jutarop (Ben) Limpinyakul

Cong Sun

Djordje Lukic

Suni Smith

Nilesh Malpekar

Tomas Bergland

PPM Project (Preventative/Predictive Maintenance)

Customer's headache
- Records give limited history of equipment
- Current process logs only REACTIVE repairs
- No controlled inventory of "spare parts"
- No PRE-PLANNED schedule of maintenance
- No organized PPM program

Project goals
- a list of PM operations required per machine
- Assist in creation of CURRENT and FUTURE process map for a world-class Preventative/Predictive Maintenance Program.
- SAP-downloadable format files for the above

PPM Project (Preventative/Predictive Maintenance)

Progress toward goals
- set up preliminary PM sheets for a few machines
- identified need for daily PM
- attaining pictures for the PM sheets

Major obstacles encountered
Attaining maintenance information on old machines

Future challenges
- Incorporating PM into SAP or some other electronic format
- Attaining maintenance information on old machines
- Working with Sloan maintenance crew to incorporate PM program

WMS Project (Warehouse Management System)

Customer's headache:

- products not easily identifiable in warehouse
- no formal procedures for storing items
- inventories are not stored by volume of transactions

WMS Project (Warehouse Management System)

Project goals
- implementing bar code automation processing
- formalizing the process for warehouse management
- writing the instructions for the new processes

Progress toward goals
- selected RF guns for bar code processing
- defined item storage location logic (two CS team member's computer programs helped a lot)
- initiated unit testing in SAP system

WMS Project (Warehouse Management System)

Major obstacles encountered:
- SAP training took longer than expected.

Future challenges:
- work delays due to SAP down time.
- workload peaks in SAP testing task
- possibly extra effort in writing instructions

Thanks! & Questions?