

TECNICELPA/TAPPI
Kraft Recovery Course

November 13-15, 2019

Hotel Mercure, Figueira da Foz, Portugal

Instructors

HONGHI TRAN
Professor
University of Toronto
Canada

JIM BREWSTER
Former Mill Manager
Irving Pulp & Paper Limited
Canada

RICHARD MANNING
Former Director & CTO
KFS
United Kingdom

Course Schedule

DAY 1 - Wednesday, November 13, 2019		
14:00	WELCOMING REMARKS AND COURSE FORMAT	Vitor Lucas/ Honghi Tran
14:15	STATE OF THE INDUSTRY	Jim Brewster
14:30	THE KRAFT RECOVERY PROCESS	Honghi Tran
15:00	BROWNSTOCK WASHING PRINCIPLES AND PRACTICES	Jim Brewster
15:40	<i>Coffee Break</i>	
16:00	BLACK LIQUOR PROPERTIES	Honghi Tran
16:40	EVAPORATOR PRINCIPLES AND OPERATIONS - I	Jim Brewster
17:00	<i>Adjournment</i>	

DAY 2 - Thursday, November 14, 2019		
09:00	QUESTIONS FROM DAY 1 LECTURES	All
09:10	EVAPORATOR PRINCIPLES AND OPERATIONS - II	Jim Brewster
10:00	EVAPORATOR FOULING AND MITIGATION	Honghi Tran
10:40	<i>Coffee Break</i>	
11:10	FOUL CONDENSATE STRIPPING AND NCG COLLECTION	Honghi Tran
11:50	BLACK LIQUOR BURNING PROPERTIES	Honghi Tran
12:30	RECOVERY BOILER EQUIPMENT AND PRACTICES - I	Jim Brewster
13:00	<i>Lunch</i>	
14:00	RECOVERY BOILER EQUIPMENT AND PRACTICES - II	Jim Brewster
14:20	RECOVERY BOILER CHEMICAL PRINCIPLES	Honghi Tran
15:00	BLACK LIQUOR AND AIR DELIVERY	Jim Brewster
15:20	<i>Coffee Break</i>	
15:40	BLACK LIQUOR AND AIR DELIVERY (Cont'd)	Jim Brewster
16:00	FIRESIDE DEPOSIT FORMATION AND PLUGGING PREVENTION - I	Honghi Tran
16:20	WORKSHOP	All
17:00	<i>Adjournment</i>	

DAY 3 - Friday, November 15, 2019		
09:00	QUESTIONS FROM DAY 2 LECTURES	All
09:10	FIRESIDE DEPOSIT FORMATION AND PLUGGING PREVENTION - II	Honghi Tran
09:30	RECOVERY BOILER CORROSION	
10:00	RECOVERY BOILER OPTIMIZATION	Jim Brewster
10:30	<i>Coffee Break</i>	
10:50	RECAUSTICING PRINCIPLES	Honghi Tran
11:20	CAUSTICIZING PLANT EQUIPMENT AND PRACTICES	Jim Brewster
12:00	SCALE FORMATION IN CAUSTICIZING PLANT	Honghi Tran
12:20	LIME KILN EQUIPMENT AND PRACTICES	Jim Brewster
13:00	<i>Lunch</i>	
14:00	NON-PROCESS ELEMENTS – ACCUMULATION, IMPACT & CONTROL	Honghi Tran
14:40	LIME KILN PRINCIPLES AND DESIGN	Richard Manning
15:20	<i>Coffee Break</i>	
15:40	LIME KILN OPERATING ISSUES AND OPTIMIZATION	Richard Manning
16:50	QUESTIONS ON DAY 3 LECTURES	All
17:00	<i>Concluding Remarks</i>	Honghi Tran