

TECNICELPA/TAPPI
Kraft Recovery Course

November 11-13, 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 – Monday, November 11, 2019		
09:00	WELCOMING REMARKS AND COURSE FORMAT	Vitor Lucas/ Honghi Tran
09:15	STATE OF THE INDUSTRY	Jim Brewster
09:30	THE KRAFT PROCESS	Honghi Tran
10:00	BROWNSTOCK WASHING PRINCIPLES AND PRACTICES	Jim Brewster
10:40	<i>Coffee Break</i>	
11:10	BLACK LIQUOR PROPERTIES	Honghi Tran
11:50	EVAPORATOR PRINCIPLES AND OPERATIONS	Jim Brewster
13:00	<i>Lunch</i>	
14:00	EVAPORATOR FOULING AND MITIGATION	Honghi Tran
14:40	FOUL CONDENSATE STRIPPING AND NCG COLLECTION	Honghi Tran
15:20	<i>Coffee Break</i>	
15:40	BLACK LIQUOR BURNING PROPERTIES	Honghi Tran
16:20	WORKSHOP	All
17:00	<i>Adjournment</i>	

DAY 2 – Tuesday, November 12, 2019		
09:00	QUESTIONS ON DAY 1 LECTURES	All
09:10	RECOVERY BOILER EQUIPMENT AND PRACTICES	Jim Brewster
10:00	RECOVERY BOILER CHEMICAL PRINCIPLES	Honghi Tran
10:40	<i>Coffee Break</i>	
11:00	BLACK LIQUOR AND AIR DELIVERY	Jim Brewster
11:40	FIRESIDE DEPOSIT FORMATION AND PLUGGING PREVENTION	Honghi Tran
12:30	RECOVERY BOILER CORROSION	Honghi Tran
13:00	<i>Lunch</i>	
14:00	RECOVERY BOILER OPTIMIZATION	Jim Brewster
14:30	RECAUSTICIZING PRINCIPLES	Honghi Tran
15:00	CAUSTICIZING PLANT EQUIPMENT AND PRACTICES	Jim Brewster
15:20	<i>Coffee Break</i>	
15:40	CAUSTICIZING PLANT EQUIPMENT AND PRACTICES (Cont'd)	Jim Brewster
16:00	SCALE FORMATION IN CAUSTICIZING PLANT	Honghi Tran
16:20	WORKSHOP	All
17:00	<i>Adjournment</i>	

DAY 3 – Wednesday, November 13, 2019		
09:00	QUESTIONS ON DAY 2 LECTURES	All
09:10	NON-PROCESS ELEMENTS: IMPACT, ACCUMULATION & CONTROL	Honghi Tran
09:50	LIME KILN PRINCIPLES AND DESIGN	Richard Manning
10:20	<i>Coffee Break</i>	
10:40	LIME KILN OPERATING ISSUES AND OPTIMIZATION	Richard Manning
11:50	QUESTIONS ON DAY 3 LECTURES	All
12:00	<i>Concluding Remarks</i>	Honghi Tran