DR. RANJAN R. CHAKRAVARTY

SUMMARY

- Experienced (22+ years) Analytical, Data Driven, and Quantitative Senior Risk Professional
- Monetary Authority of Singapore-Approved Chief Risk Officer
- Proven track record in ICAAP for Basel II/III at major German and French banks, major Japanese and Singaporean banks and global exchanges in Asia
- Specialist in Analytics for Credit Risk, Counterparty Credit, Operational Risk, Market Risk, Asset Liability Management, Product Control and Valuation
- Launched successful Basel II/III implementation Consulting practice
- Trained and mentored over 200 Risk professionals worldwide

PRINCIPAL ACHIEVEMENTS

- Landmark implementation of Basel II for Hypovereinsbank Asia: Achieved reduction in CAR: from 19% to 11%. Major influencer in the global revision of the lower limit of CAR industry-wide to 8%. First among German banks in Asia
- Propelled DBS Bank towards Basel II compliance within 1 year from a Finance and Business Unit Control: The processes are still successfully in use into the Basel III regime
- Implemented CPSS-IOSCO principles for Basel III for both the Singapore Mercantile Exchange (SMX) and Clearing Corporation (SMXCC)

BASEL EXPERIENCE

- Delegate to the Original Group of 30 for the Basel Accords. Represented Bankers Trust. Active in Regulatory forums in the U.S. with the OCC, in Asia with MAS, HKMA & FSA, and in Europe with the LZB and BAKred.
- ICAAP Pillar I: Credit Risk Capital Assessment in the standardized and Internal Ratings Based (IRB) approaches, including the new capital charge for Credit Valuation Adjustments (CVA). Market Risk Capital Assessment via standardized approach or IMA. Operational Risk Capital Assessment via standardized approach/AMA.
- ICAAP Pillar II: Stress Testing on Risk Drivers and Market Data, including ratings, PD, LGD, CCFs, haircuts, run-offs, sell-offs, FX rates, and yield curves. Liquidity Stress Testing for internal funding needs assessment for ILAAP. Scenario Analyses on all Basel ratios and factors including rating downgrades and business forecasts, with simulated Regulatory and macroeconomic changes.
- ICAAP Pillar III: Updates to Stakeholders. Internal Control Reviews. KRI Dashboards

CAPITAL ATTRIBUTION & RISK PERFORMANCE ANALYTICS EXPERIENCE

- Capital Adequacy reports for Regulator under Pillar I, and Stakeholders under Pillar III. Regular production of Pillar 1 regulatory capital, concentration risk, and liquidity reports.
- Earliest RAROC methodology implementer on Wall Street - in Bankers Trust (before Deutsche Bank). Refined Credit RAROC and Market RAROC over the years.

REGULATORY & STAKEHOLDER REPORTING AND KNOWLEDGE SHARING

- Regular Reports to Regulators across the world for 22 years. Member of various Working Groups over the years. Stakeholder Reporting: Accountable for Risk Appetite Analytics at the Executive, Director and Board levels, and presentations on specialized Risk topics to ALCOs and other Board Committees.
- Trained and mentored over 200 Risk and Control professionals worldwide. Alumni include many leading Risk professionals in banks today.
    - U.S.: Bank of America Merrill Lynch, GE Capital, Jefferies and Co., J.P. Morgan Chase and Morgan Stanley
    - Europe: Deutsche Bank, Union Bank of Switzerland, Barclays, BNP Paribas and Societe Generale
    - Japan: Nomura, Mizuho Bank and Bank of Tokyo Mitsubishi
    - Singapore: Development Bank of Singapore (DBS) and Overseas Chinese Commercial bank (OCBC)
    - Malaysia: RHB Bank
    - Australia: ANZ Bank

PROFESSIONAL RECORD

Risk Trainer and Research Consultant — **May 2014 – Present**
Singapore and ASEAN

Chief Risk Officer — **June 2007 – April 2014**
Singapore Mercantile Exchange (SMX) and Clearing Corporation (SMXCC)
Singapore, and Multi Commodities Exchange (MCX) Group, India

Co-Founder and CEO — **Sept 2005 – May 2007**
Orthien Consulting Pte Ltd., Singapore

Managing Director and Head of Product Control — **July 2004 – August 2005**
DBS Bank, Singapore

Managing Director and Head of Risk Control Asia — **May 1999 – June 2002**
Hypovereinsbank Group, Germany and Singapore

Senior Vice President - Risk Management — **Nov1997 - April 1999**
GE Capital - Capital Markets Services, Stamford, Connecticut, U.S.A

Vice President - Global Financial Risk Management — **Nov 1995 - Nov 1997**
Bank of Boston (now Bank of America Merrill Lynch), Boston, MA, U.S.A

Associate, Global Risk Management — **April 1993 - Oct 1995**
Bankers Trust (now Deutsche Bank), New York, NY, U.S.A

EDUCATION

Graduate School of Business, Columbia University, New York, NY
Post-Doctoral Fellow/Visiting Scholar {1992-1993}
Department of Finance

Research: Market microstructure.
Published in Journal of Banking and Finance (accepted 1993, published 1995).
Published in Ciencia Ergo Sum (accepted 1993, published 1996).
Conference Presentation: Eastern Finance Association, 1992, with F.H.B. Harris and T.H. McInish, "An Empirical Investigation of the Quote Revision Behavior of NYSE Specialists."

University of Texas at Arlington, Arlington, TX
Ph.D. in Business Administration (Finance) {1986-1991}
Fields: Finance and Management Science

Chair: Professor Thomas H. McInish.
Dissertation: "Non-Walrasian market microstructure: theory and tests."
Research paradigm: High frequency algorithms, information arbitrage and uncertainty measures using tick by tick ISSM data, queuing theory and the microeconomics of exchanges

Syracuse University, Maxwell School of Citizenship and Public Affairs, Syracuse, NY
M.A. in Economics {1983 - 1986}
Advisor: Professor A. Dale Tussing

Thesis: Econometric estimation of the demand for public goods
Omicron Delta Epsilon, international honor society in economics

The University of Akron, Akron, OH
M.A. in Urban Studies – Urban Planning {1981-1983}
Advisors: Professor James F. Richardson.

Thesis: Economic analysis of revenue bonds for mid-sized U.S. municipalities

St. Xavier's College, University of Mumbai, Mumbai, India

B.A. (Hons) in Economics {1977-1980}
First Class Hons. Ranked 1st in St. Xavier's College