

Index

- 9/11 attacks 211–13
1987 crash 135–50, 201
- ABS (asset backed securities) 192
a/c/e platform 199–200
ACCC (Adler, Coleman Clearing Corporation) 171
ACP (Autorité de contrôle prudentiel) 240
Adler, Coleman Clearing Corporation (ACCC) 171
administration of LBIE 25–6, 43–4
AIG 3, 5, 29, 281–3, 297, 311
AIG Financial Products 281–3
Aigrain, Jacques 327
Alderley, Lord Stanley of 75
algorithmic trading 190, 321–2
ALK *see* *Amsterdamsche Liquidatiekas*
American International Group *see* AIG
American Stock Exchange (Amex) 125, 174
AMF (Autorité des Marchés Financiers) 239
Amsterdam Stock Exchange 53, 54, 227
Amsterdamsche Liquidatiekas (ALK) 72–3, 79–80, 91, 109–10
anti-gambling laws 65–6, 69, 74–7
Asia 215–18, 352–5
see also China; India
Asmussen, Jörg 250–1
asset backed securities (ABS) 192
associate members, LPCH 115
Assyrian traders 51
ASX *see* Australian Securities Exchange
auction systems 34–5, 39
Australia 118, 130, 165, 217, 353
see also Sydney...
Australian Securities Exchange (ASX) 217, 353
authorised brokers, LPCH 82
Autorité de contrôle prudentiel (ACP) 240
Autorité des Marchés Financiers (AMF) 239
- back offices 11, 124, 146
BaFin 243–4
Banco di San Giorgio 52
bank borrowing, 1987 crash 137
- Bank of England 44, 54, 128, 145, 147
Bank for International Settlements (BIS) 15, 120, 147–8, 180, 193
bankruptcy procedures, UK 43
Banque Centrale de Compensation (BCC) 132, 155–6, 161
see also LCH.Clearnet SA
Banque de France 288–9, 311
Barclays 40
Barings collapse 146–50, 167
Barnier, Michel 296, 339
Basel Committee on Banking Supervision 15
Basel II 15, 345–6
Basel III 337, 345–7
BATS Exchange 317, 324
BCC *see* Banque Centrale de Compensation
Bclear service, LIFFE 299, 302
Bear Stearns 222, 224, 274
beet sugar 84, 91
Belgium 227–30, 232, 239–40
Berliand, Richard 308
Bernanke, Ben S. 139–40
‘Big Bang’ 289–90
bilateral clearing 9, 16, 59, 108
bills of exchange 51–2
BIS *see* Bank for International Settlements
‘black box’ trading 190
Black, Fischer 120
‘Black Monday’ 135
‘Black Wednesday’ 166
BNP-Paribas 36
Board of Trade Clearing Corporation (BOTCC) 66, 106–9, 163, 176
1987 crash 137, 140
CBOT divergence 200–5, 209
common clearing 198, 204
computerisation 116, 122–3
cross-margining 143
open interest 17, 204–5
regulation 124
see also Clearing Corporation
Boca Raton Declaration 149

- Bodson, Michael 266, 319
Bolkestein, Frits 246, 247
bonds, GNMA 121
Borsa Italiana 272, 275, 331
Börsengesetz 74–5
BOTCC *see* Board of Trade Clearing Corporation
bottom-up approach, standard contracts 340
Boyle, James E. 108
Brady Report 136
Bretton Woods collapse 113–33
Breuer, Rolf-E. 151–2
Britain *see* United Kingdom
Brodsky, Bill 122, 123, 141–2
brokers
 Liverpool cotton 60
 LPCH 82, 85
 LSE 55
BrokerTec 202, 206, 208
Brown-Hruska, Sharon 205
Bruce, Phil 130
bucket-shops 65
Bunge, Ernst Alexander 72–4
Burke, John 34–5
business models, CCPs 14–15
buy-side clients 310, 313–15
by-laws, BOTCC 107
- Cahill, Michael E. 142, 175
*Caisse de Compensation des Affaires en
 Marchandises au Havre* 113
*Caisse de Liquidation des Affaires en Marchandises
 (Caisse)* also *Caisse de Liquidation des
 Affaires en Marchandises au Havre* 67–73,
 79–81, 98, 109–10
*Caisse de Liquidation des Affaires en Marchandises
 (CLAM) of Paris* 118, 131–2.
Canada 98–9, 100–1
capital requirements 10, 11, 288, 346–7
Capital Requirements Directive (CRD) 288
Carey, Charles P. 204, 207
Cargill Grain Company 107
cash settlement 13, 120–3, 139
Cassa di Compensazione e Garanzia (CC&G) 36,
 272, 332
Cb *see* Commission bancaire
CBOE *see* Chicago Board Options Exchange
CBOT *see* Chicago Board of Trade
CC&G *see* Cassa di Compensazione e Garanzia
CCASS (Central Clearing and Settlement System) 42
CCBM (correspondent central banking model) 47
CCIFP (Chambre de Compensation des Instruments
 Financiers de Paris) 152
CCIL *see* Clearing Corporation of India
CCorp *see* Clearing Corporation
CCP12 group 352
CCPs *see* central counterparty clearing houses
CCR *see* counterparty credit risk
CDOs (collateralised debt obligations) 192
CDSs *see* Credit Default Swaps
- CEA *see* Commodity Exchange Act; Commodity
 Exchange Authority
CECEI *see* Comité des Établissements de Crédit et
 des Entreprises d'Investissement
Cedel 185, 228–9, 231
central banks 348–9
Central Clearing and Settlement System (CCASS) 42
central counterparty clearing houses (CCPs) 3–6,
 7–23, 355–60
 Basel III and 345–7
 business models 14–15
 for CBOT 103–6
 for CDSs 256, 285–7, 333
 CME model 129
 cross-border 227–30
 default procedures 29, 44–7
 European interoperability 323–5
 evolution of 49–110
 exchanges and 151–61
 failures 131–3, 347–51
 GSCC as 170–1
 initial margin 70
 international standards 213–15
 mutual ownership 184
 OTC legislation 291, 294–5
 regulation 135–50, 340–5
 setting up 351
 single model 233–5, 238, 251–2
 spread of 351–2
 swap clearing 297–9, 314–15
 unique selling point 7–8
 US equities clearing 126
 user-governed 163–76, 181–3
central securities depositories (CSDs) 13, 124
 CCPs and 256
 cross-border 227–8
 DTCC model 172
 equity clearing 125–6
 LCH.Clearnet SA 36
 post-trade policy 245–6
 Turquoise project 267
Cesame *see* Clearing and Settlement Advisory and
 Monitoring Expert Group
CESR *see* Committee of European Securities
 Regulators
CFMA *see* Commodity Futures Modernization
 Act
CFTC *see* Commodity Futures Trading Commission
Chamber of Commerce of Minneapolis 95–6, 98–9,
 110
Chambre de Compensation des Instruments
 Financiers de Paris (CCIFP) 152
Champagne trade fairs 51–2
Chan, Diana 266, 324
Chase Manhattan 194
Chi-X 267–8
Chicago
 complete clearing 95–6
 futures market 139, 197–210

- Chicago Board Options Exchange (CBOE) 120, 125, 142, 174–5
- Chicago Board of Trade (CBOT) 18, 59, 61–6, 197–210
- BOTCC relationship 176, 200–5, 209
 - complete clearing 96–9, 103–9
 - computerisation 116
 - cross-margining 143
 - ICE and 270, 274
 - interest rate futures 120–1
 - MMI index 136
 - open interest 17
 - regulation 124–5
 - vertical model 276
 - see also* Board of Trade Clearing Corporation
- Chicago Mercantile Exchange (CME) 4, 18–20, 197–210
- 1987 crash 137–41
 - ascent of 203–5
 - Barings collapse 146, 148
 - CDS market 225, 302
 - challenges to 327–30
 - complete clearing 102–4, 106, 110
 - cross-margining 141–3
 - demutualisation 183
 - equity clearing 318–21
 - futures introduction 113, 116, 119–20, 122–4
 - GLOBEX 158–9, 203
 - ICE and 264, 270, 274
 - LBI and 39–40
 - open interest 17
 - Paris markets and 186
 - S&P 500 futures 135–6
 - swap clearing 298, 313, 315
 - as UK model 129
 - vertical model 276
- China 351, 352, 354
- Christensen, Paul 295
- Cinnober 322
- Citi bank 267
- Citigroup 194
- CLAM *see* *Caisse de Liquidation des Affaires en Marchandises* (of Paris)
- Clearing 21 159–60, 186, 203, 233, 237, 260
- clearing
- CBOT 61–5
 - derivatives 12–14, 20, 38, 218–19, 299–302
 - Dutch ‘Golden Age’ 52–4
 - early history of 51–66
 - at LSE 331–3
 - markets 8–9
 - as politics 284–5
 - post-crisis paradigms 279–360
 - for profit 79–80
 - securities 12–14, 19
 - swaps 297–315
 - transatlantic 186–7, 277, 292–3
- Clearing Corporation (CCorp) 206–10, 222–4, 285–6, 299–302
- see also* Board of Trade Clearing Corporation
- Clearing Corporation of India (CCIL) 217, 353
- clearing houses
- Asian 352–5
 - spread of 54–5
 - see also* central counterparty clearing houses
- clearing members
- concentration among 193–5
 - customer segregation 30
- Clearing Processing System (CPS) 130, 271
- Clearing and Settlement Advisory and Monitoring Expert Group (Cesame) 246
- Clearnet 155, 160–1, 163, 228–38
- see also* LCH.Clearnet...
- ClearPort 219
- Clearstream 185, 229
- client account transfers, LCH.Clearnet 31
- client money rules 30
- CME *see* Chicago Mercantile Exchange
- CNS *see* Continuous Net Settlement
- co-decision process 339
- cocoa trade 92, 94, 114, 117
- Code of Conduct, Europe 21, 189, 253–8
- coffee trade
- Amsterdamsche Liquidatiekas* 72–3
 - complete clearing 95, 102, 110
 - Le Havre 67–9, 71
 - LPCH 77, 81–2, 83–7, 92
- COGESI (Contact Group on Euro Securities Infrastructures) 324
- collateral management services 346
- collateralised debt obligations (CDOs) 192
- ‘college’ of regulators 239–40
- Comité des Établissements de Crédit et des Entreprises d’Investissement (CECEI) 239–40
- Commission bancaire (Cb) 239, 259–60
- Committee of European Securities Regulators (CESR) 189–90, 243–4
- Committee on Payment and Settlement Systems (CPSS) 149
- see also* CPSS-IOSCO task force
- commodities trading 58, 67–73
- see also* forward trading
- Commodity Exchange Act (CEA) 187–8
- Commodity Exchange Authority (CEA) 123
- Commodity Futures Modernization Act (CFMA) 188–9, 192, 218
- Commodity Futures Trading Commission (CFTC) 18, 123–4, 136–7, 140, 187–8
- 1987 crash response 141
 - Barings collapse 148
 - cash settlement 122
 - CBOT and 205–9
 - Dodd-Frank Act 336–8
 - ELX and 330
 - OTC legislation 291
 - risks/opportunities 212
- common clearing 197–9, 204–5, 209
- communications improvements 58, 62, 67, 153
- Companies Act 1989, UK 29, 45

- company structures, EU 154
- competition
 - LPCH 85–8
 - open interest 17
 - regulators 187–90
 - risk management 358
 - stock exchanges 317–18
 - US clearing systems 18–20
 - vertical silos 248–51
- competition authorities 248–51
- complete clearing 6, 64, 95–110
- computerisation 179, 181
 - 1987 crash 135–6
 - EU 154
 - US 114, 116–18, 122–3
- concentration, clearing members 193–5
- conferences 186
- conflicts in Asia 215–18
- Connally, John 118–19
- Considine, Jill 173–4
- consolidation
 - LCH and Clearnet 231
 - post-trade services in Europe 184–6
- Contact Group on Euro Securities Infrastructures (COGESI) 324
- continental Europe *see* Europe
- Continental Power Exchange (CPEX) 218
- Continuous Net Settlement (CNS) 124, 125, 172
- Contract Association 86–7, 88
- contracts, derivatives as 12–13
- corporate governance, EU 155
- corporate manoeuvring 158–60, 181, 186
- correspondent central banking model (CCBM) 47
- Corrigan, Gerald 221, 225
- cost reductions, CCPs 181–3
- cotton trade 59–61, 67–9, 79
- counterparties 32–3
 - see also* central counterparty clearing houses
- counterparty credit risk (CCR) 343, 345
- counterparty risk 3, 6, 343
 - Basel III 345
 - CRMPG 221, 225–6
 - LPCH systems 83
 - modern CCPs 7, 10
- Counterparty Risk Management Policy Group (CRMPG) 221, 225–6
- CPEX (Continental Power Exchange) 218
- CPS *see* Clearing Processing System
- CPSS (Committee on Payment and Settlement Systems) 149
- CPSS-IOSCO task force 22, 189–90, 213–15, 243–4, 290, 343, 347–8
- CRD (Capital Requirements Directive) 288
- ‘credit crunch’ 223
- Credit Default Swaps (CDSs) 127, 192–3, 208, 221–6, 288–91, 296
 - AIG 281–3
 - CCPs for 285–7, 333
 - clearing 299–302
 - Dodd-Frank Act 336
 - New York Fed 285–7
- credit derivatives 220, 222–6, 299–302
- credit events 192
- credit exposure, CCPs 213
- credit risk transference 192
- credit valuation adjustments (CVA) 345
- credit vouchers 60
- CRESTCo 169, 233
- CRMPG *see* Counterparty Risk Management Policy Group
- Crosby Emery, Henry 98
- cross-border clearing 155, 182, 186–7, 227–38
- cross-margining agreements 141–3
- CSDs *see* central securities depositories
- Culbertson, John 91
- currency diversification 118–19
- currency volatility 109
- custodian banks 13
- custody risk 214–15
- customer segregation 30
- CVA (credit valuation adjustments) 345
- Czarnikow, Caesar 81, 84–5, 110
- Davie, Michael 309–10
- DBC *see* Deutsche Börse Clearing
- DCMs (direct clearing members) 8
- DCOs *see* derivatives clearing organisations;
- de Boer, Jan Bart 38–9
- de la Martinière, Gérard 236–7, 259–60
- de la Vega, Joseph 53–4
- default funds 10, 21–3, 166–7, 343, 347
- defaults
 - Caisse de Liquidation* 71
 - CCP recommendations 214
 - clearing markets 9
 - LBI 40
 - LBIE 28–32, 36, 38–9
 - LCH.Clearnet procedures 27–32
 - learning from 42–7
- demutualisation 183–4, 216, 274–6, 358
- Department of Justice (DoJ), US 174–5, 276
- Depository Trust and Clearing Corporation (DTCC)
 - 4, 19, 38–42, 186, 189
 - CDS market 221–2, 224–5, 286
 - creation of 169–74, 185
 - cross-border clearing 234–5
 - equity clearing fees 319
 - LCH.Clearnet merger 27, 272–7, 298, 303–7
 - Nasdaq versus 311
 - NYPC 328–9
 - risks/opportunities 211–12
 - stocks trading 317
 - TIW 286, 293, 299–300
 - Turquoise project 266–7
 - user demands 182
 - see also* European Central Counterparty Ltd
- Depository Trust Company (DTC) 41, 125–6, 169–74, 182

- depression, US 108–9
deregulation 151, 153, 165, 189
Deriv/SERV 221–2, 225
derivatives 4, 155
 1987 crash 140–1
 Barings collapse 147
 CFMA regulation 188
 clearing 12–14, 20, 38, 218–19, 299–302
 open interest 16
derivatives clearing organisations (DCOs) 188–9, 203
designated contract markets 338
designated order turnaround (DOT) 139
Deutsche Börse 157–8, 160
 a/c/e platform 199–200
 demutualisation 183–4
 Euronext and 251–2, 261
 LSE merger 232, 248–9
 single CCP model 234, 238
Deutsche Börse Clearing (DBC) 185, 197, 227–30
Deutsche Terminbörse (DTB) 151–2, 154, 155–60
Deutscher Kassenverein (DKV) 157
DG Comp *see* directorate general for enforcing EU competition law
DG Markt *see* directorate general for the Internal Market
direct clearing members (DCMs) 8
direct settlement, CBOT 63
directorate general for enforcing EU competition law (DG Comp) 249–51, 253
directorate general for the Internal Market (DG Markt) 247, 250–2
dividends, LPCH 88, 93–4
DJIA (Dow Jones Industrial Average) 135–6
DKV (Deutscher Kassenverein) 157
Dodd-Frank Act 335–9, 345, 350–1, 356, 359
DoJ *see* Department of Justice
Dojima rice market 56–7, 355
Donahue, Donald (Don) 4, 41, 174, 222, 266, 277, 303–4, 307, 313.
DOT (designated order turnaround) 139
dot.com boom/bust 180, 211
Dow Jones Industrial Average (DJIA) 135–6
DTB *see* Deutsche Terminbörse
DTC *see* Depository Trust Company
DTCC *see* Depository Trust and Clearing Corporation
ducaton trades 53–4
Duffy, Terrence (Terry) 4, 204, 207, 350
Dutch ‘Golden Age’ 52–4
Dutterer, Dennis 106, 201, 202–3, 205, 208, 329

EACH *see* European Association of Central Counterparty Clearing Houses
earnings before interest and tax (EBIT) 237
ECB *see* European Central Bank
ECNs (Electronic Communications Networks) 274
ECON (economic and monetary affairs committee) 288
economic growth, post-war 113–14
economic and monetary affairs committee (ECON) 288
economic and monetary union (EMU), EU 153–5
ECSDA (European Central Securities Depositories Association) 255–6
EFF (Exchange of Futures for Futures) rule 330
Effectenclearing BV 227
efficiency of CCPs 214
Electronic Communications Networks (ECNs) 274
electronic trading platforms 14, 156
Ellison, Thomas 59–60
ELX Futures 20, 329–30, 357–8
EMCC *see* Emerging Markets Clearing Corporation
EMCF *see* European Multilateral Clearing Facility
Emerging Markets Clearing Corporation (EMCC) 171, 173
EMIR *see* European Markets Infrastructure Regulation
Employment Retirement Securities Act (ERISA) 140
EMU (economic and monetary union), EU 153–5
ENCORE clearing system 175
energy derivatives 218–19
Enron 218–19
equity clearing 13–14, 356–7
 21st century 190–1
 CCPs for 227–8
 DTCC 41
 European systems 20–1, 38
 fees 318–21
 horizontal integration 125–6
 netting 16
 US systems 19
 see also securities
EquityClear 169
Erie Canal 61
ERISA (Employment Retirement Securities Act) 140
ERM *see* Exchange Rate Mechanism
ESCB *see* European System of Central Banks
ESF *see* European Securities Forum
ESIUG (European Securities Industry Users’ Group) 182–3
ESMA *see* European Securities and Markets Authority
ESRB (European Systemic Risk Board) 340
EU *see* European Union
EUI *see* Euroclear UK and Ireland
Eurex 38, 160–1, 163, 238, 301
 BOTCC link 204
 CBOT and 205–7
 CME versus 210
 common clearing 197–9
 derivatives clearing 13, 155
 LCH and 168
 trading venues 8
Eurex Credit Clear 301
EURO-Alliance 160–1
EuroCCP *see* European Central Counterparty Ltd
Euroclear group 37, 185, 230, 262–3, 304, 307, 331–2

- Euroclear UK and Ireland (EUI) 331–2
- Eurodollar contract 121
- Euronext exchange 183, 185, 230–2
 - competition authorities 249
 - Deutsche Börse and 251–2, 261
 - LCH and 235–7, 265–6
 - NYSE 156–7, 298–9, 304, 306, 308, 357
 - CME challenge 327–30
 - European clearing houses 326–7
 - LCH.Clearnet and 270, 273, 275, 277, 318
 - Lehman bankruptcy 27, 30
 - LSE clearing 331–3
 - single CCP model 234
- Euronext.liffe 210
- Europe 355–8
 - 19th century CCP 6, 57–8, 66, 67–77
 - anti-gambling laws 69, 74–7
 - CCPs and exchanges 151–61
 - clearing member concentration 194
 - consolidated providers 184–6
 - cross-border clearing 227–38
 - default procedures 38
 - DTCC creation 172
 - equity clearing fees 318–21
 - futures introduction 113
 - guarantee methods 95, 99
 - industrialisation 57
 - interoperability in 323–5
 - LCH clearing 166
 - Medieval traders 51–2
 - modern CCPs 13–14, 18, 20–1, 22
 - NYSE Euronext clearing 326–7
 - post-trade policy 239–58
 - regulation issues 187, 339–45
 - screen-based traders 197
 - single market 153–5
 - transatlantic clearing 186
 - see also* European Union; First World War; Second World War
- European Association of Central Counterparty Clearing Houses (EACH) 255–6, 324, 351–2
- European Central Bank (ECB) 47, 240–2, 288, 324, 342
- European Central Counterparty Ltd (EuroCCP)
 - 38–9, 186, 234–5
 - fees 318–19
 - interoperability 324–5
 - LCH.Clearnet and 303
 - Turquoise project 266–8
- European Central Securities Depositories Association (ECSDA) 255–6
- European Commission 357, 359
 - Basel III 345–6
 - Code of Conduct 21, 189, 253–8
 - EMIR 339
 - post-trade policy 241–6
- European Economic Community 118, 153
- European Financial Services Round Table 251
- European Markets Infrastructure Regulation (EMIR) 339–45
- European Multilateral Clearing Facility (EMCF) 38–9, 267–8, 297, 318–19, 323–5, 331
- European Securities Clearing Corporation 168
- European Securities Forum (ESF) 183, 233–5, 240
- European Securities Industry Users' Group (ESIU) 182–3
- European Securities and Markets Authority (ESMA) 340, 342, 344
- European System of Central Banks (ESCB) 189–90, 243–4
- European Systemic Risk Board (ESRB) 340
- European Union (EU) 153–5
 - 21st century challenges 182–3, 189
 - FSAP 179
 - ISD 161
 - LCH clearing 166
 - OTC market 282–5, 287–90, 294, 296, 342–3
 - post-trade policy 241–7
 - stock exchanges 318
 - see also* Europe
- Eurosystem 240
- exchange controls, UK 126–7
- Exchange of Futures for Futures (EFF) rule 330
- exchange groups
 - Europe 184–6
 - US 183–4
- exchange laws, Germany 74–5
- exchange members
 - CBOT 198
 - CME 103
 - LPCH 115
 - Minneapolis association 97
 - Winnipeg association 100
- exchange rate fixing 52
- Exchange Rate Mechanism (ERM), EU 153, 166
- exchanges, CCPs in 151–61
 - see also* stock exchange traders
- exhibitions 186
- Fannie Mae (Federal National Mortgage Association) 312–14
- FCMs *see* futures commission merchants
- Federal Deposit Insurance Corporation (FDIC) 338
- Federal Trade Commission (FTC) 96–9
- Federation of European Securities Exchanges (FESE) 253, 255–6
- Fedwire 139, 140
- fees, European equities 318–21
- Ferscha, Rudolf 200, 204–7
- FESE *see* Federation of European Securities Exchanges
- FGC *see* Futures Guarantee Corporation
- FIA *see* Futures Industry Association
- FICC *see* Fixed Income Clearing Corporation
- financial futures *see* futures contracts
- financial resources, CCPs 214
- Financial Security Oversight Council (FSOC) 337–8

- Financial Services Action Plan (FSAP) 179, 247
see also Markets in Financial Instruments Directive
- Financial Services Authority (FSA) 27, 28, 30, 44, 179
- Financial Services Sector Coordinating Council (FSSCC) 212
- Financial Stability Forum (FSF) 284
- First World War 88–91, 105, 109
- fishmeal market 115
- Fixed Income Clearing Corporation (FICC) 41, 173, 313, 328
- ‘flash crash’ 322
- floor rules 102
- Fortis bank 46
- Fortlage, Hermann 88, 95
- forward trading 57–9, 62, 127
- fragmented regulation 239–41
- France 35–7, 260, 288–9, 302–4
19th century clearing 66, 67–73
Commission bancaire 239, 259–60
complete clearing 98, 109–10
corporate manoeuvring 158–60
cross-border clearing 228–30
EURO-Alliance 160–1
exchanges 151–2, 155, 157
futures introduction 113, 118, 129, 131
Lily consortium 307, 311
LPCH and 79–81
Medieval traders 51–2
post-trade policy 239–40, 257
see also LCH.Clearnet SA; Paris, France
- Frank, Barney *see* Dodd-Frank Act
- Freddie Mac (Federal Home Loan Mortgage Corporation) 312–14
- free trade 75, 114
- ‘fringe banks’ 128
- Frost, Tom 166–7
- FSA *see* Financial Services Authority
- FSAP *see* Financial Services Action Plan
- FSF (Financial Stability Forum) 284
- FSOC (Financial Security Oversight Council) 337–8
- FSSCC (Financial Services Sector Coordinating Council) 212
- FTC (Federal Trade Commission) 96–9
- fungibility 19, 68, 296
- Furse, Clara 263
- futures commission merchants (FCMs) 201, 205–6, 313, 314
- futures contracts 8–9, 12, 57–65
1987 crash 139
Barings collapse 146, 150
Chicago from 1990s 197–210
European clearing systems 20, 67–75
Hong Kong 143–6
LCH clearing 165, 332–3
LIFFE 27, 32
LPCH 79, 82–5, 87, 89, 91
open interest 16–17
S&P 500 135–6
- UK 126–31
US systems 18–19, 99, 103–6, 109–10, 113–33
- Futures Guarantee Corporation (FGC) 144–5
- Futures Industry Association (FIA) 149, 199
- G10 (Group of 10) 119, 149, 213
- G20 *see* Group of Twenty
- G30 (Group of Thirty) 252
- gambling laws 65–6, 69, 74–7
- GAO *see* General Accounting Office
- Gates, L.F. 105–6
- GCMS *see* general clearing members
- GCS *see* Generic Clearing System
- Geithner, Timothy 221, 224, 285, 291–2
- General Accounting Office (GAO) 136–8, 141
- General Agreement on Tariffs and Trade 114
- general clearing members (GCMS) 8, 46
- Generic Clearing System (GCS) 259, 261–2
- Gensler, Gary 192, 295–6, 338, 350
- Germany
BaFin 243–4
Börsengesetz 74–5
BOTCC link 204
coffee trade 110
cross-border clearing 227–30
DBC/Cedel 185, 228–9
demutualised exchanges 183–4
DTB 151–2, 154, 155–60
Herstatt Bank 131
LPCH connection 83–4, 86–91
Warenliquidationskasse 72, 79–81
see also Deutsche. . .
- Gill, Phupinder 123, 135, 137, 203–4
- Ginnie Mae (Government National Mortgage Association) 121
- Giovannini, Alberto 242–5, 254
- Gisler, Daniel 25, 29
- give-up facility, LIFFE 130
- globalisation 154, 181, 186
- GLOBEX trading platform 156, 158–9, 203
- GNMA (Government National Mortgage Association) 121
- ‘Golden Age’, Netherlands 52–4
- Goldman Sachs 138, 139, 263, 360
- Goldstein, Stuart 212
- governance
of CCPs 214–15
OCC 175
regulations 360
- Government National Mortgage Association (GNMA) 121
- Government Securities Clearing Corporation (GSCC) 168, 170–1, 173
- grain trade 87, 95–6, 99–100, 103–7, 110
see also rice market
- Gramm-Leach-Bliley Act 194
- Great Depression, US 109
- Great Lakes, US 61–2, 95
- Greenspan, Alan 187, 193

- Group of 10 (G10) 119, 149, 213
Group of Twenty (G20) 22
 summit
 2008 284, 287
 2009 289, 292–3, 339–41, 345, 353
Group of Thirty (G30) 252
GSSC *see* Government Securities Clearing Corporation
guarantees
 BOTCC 140
 Caisse de Liquidation 70
 CME 103
 European methods 95, 99
 funds 12–14, 22
 LPCH 83
 New York Coffee Exchange 69
- haircuts 343
Haldane, Andrew 9–10
Hamburg, Germany 72, 79–81, 84, 90
Hang Seng Index (HSI) 136, 144–5
Harding, John 127–8, 131
Hardy, David 164, 166–7, 169, 252
 Barings collapse 146
 cross-border clearing 231–2, 236
 departure of 259–62
 futures contracts 129, 131
Hay Davison, Ian 145–6
hedge funds 9, 220
hedging industry creation 121
Hémon, Christophe 35–7, 46–7, 262
Herstatt Bank 131
Heyman, Richard 23, 30
high-frequency trading (HFT) 321–2
HKEx *see* Hong Kong Exchanges and Clearing Ltd
HKFE (Hong Kong Futures Exchange) 144–6
HKSCC *see* Hong Kong Securities Clearing Company
Hong Kong 42, 136, 143–6, 216–17, 305, 353
Hong Kong Exchanges and Clearing Ltd (HKEx) 42, 217
Hong Kong Futures Exchange (HKFE) 144–6
Hong Kong Mercantile Exchange (HKMEx) 353
Hong Kong Securities Clearing Company (HKSCC) 42, 216–17
horizontal integration 125–6, 182
horizontally-structured CCPs 18–21
HSBC Bank 305
HSI *see* Hang Seng Index
hybrid instruments 12
- ICAP inter-dealer brokers 305
ICC *see* Intermarket Clearing Corporation
ICCH *see* International Commodities Clearing House
ICCH Financial Markets Ltd (IFM) 164–5
ICE *see* IntercontinentalExchange
ICE Clear Europe 17, 27–8, 46, 268–9, 301
ICE Trust 299–302, 314
ICSDs (international central securities depositories) 13
- IDCH *see* International Derivatives Clearinghouse
IFM (ICCH Financial Markets Ltd) 164–5
IMM (International Monetary Market) 119–23
Index and Option Market (IOM) 122
India 216–18, 353, 355
industrialisation 57
industry post-trade solutions 246–8, 254
information sharing 141
information technology (IT) 153–4, 259–62
infrastructures
 Asia 216
 consolidation 184–6
 IPOs for 183–4
 regulation 339–45
 vertical integration 274–6
initial margins 70, 103, 346–7
initial public offerings (IPOs) 183–4, 199
insurance, risk management 10
intellectual property 19
Inter Sociétés de Bourse (ISB) 157
IntercontinentalExchange (ICE) 207–8, 210, 218–19, 268–72
 CDS market 225, 285–6, 299–302
 IPE acquisition 264
 Lehman bankruptcy 27, 30, 32
 swap clearing 297, 314
 vertical ascent 274–5
 see also ICE Clear Europe
interest income, CCPs 14–18
interest rate futures 120–3
interest rate swaps 32–3, 310, 313, 315
Intermarket Clearing Corporation (ICC) 138, 143
international central securities depositories (ICSDs) 13
International Commodities Clearing House (ICCH) 118, 129–33, 152–3, 164–7
 Asian CCPs 216
 Hong Kong futures 144, 146
 McLaren at 114
 transatlantic solutions 186
 UK futures 127–31
International Depository & Clearing Corporation 171
International Derivatives Clearing Group (IDCG) 298, 311–12
International Derivatives Clearinghouse (IDCH) 294, 298, 311–13
International Monetary Market (IMM) 119–23
International Organisation of Securities Commissions (IOSCO) 149
 see also CPSS-IOSCO task force
International Petroleum Exchange (IPE) 165–7, 219, 263–4
International Securities Exchange (ISE) 174–5
international standards for CCPs 213–15
International Swaps and Derivatives Association (ISDA) 289–90
International Tin Council (ITC) 133
interoperability 132, 252–3
 Code of Conduct 255

- European systems 21, 323–5, 357–8
 - regulation 344
 - US systems 124
- intra-day variation margins 11
- investment banks
 - CCP tensions 184
 - Turquoise project 264–5
 - user demands 181–2
- investment risk 214
- Investment Services Directive (ISD) 154, 161, 245
- IOM (Index and Option Market) 122
- IOSCO *see* International Organisation of Securities Commissions
- IPE *see* International Petroleum Exchange
- IPOs *see* initial public offerings
- Ireland 246–7
- ISB (Inter Sociétés de Bourse) 157
- ISD *see* Investment Services Directive
- ISDA (International Swaps and Derivatives Association) 289–90
- ISE (International Securities Exchange) 174–5
- IT *see* information technology
- Italy 272, 275, 331
- ITC (International Tin Council) 133
- iX exchange 232

- Japan 55–7, 69, 216–17, 353–4
- Jardine, William M. 105
- Jarvie, John Gibson 115
- Jaycobs, Richard 208
- Jenkins, Michael 166–7
- Jevons, William Stanley 54–5
- Johnston, Francis J. 81
- Jones, Christopher 27–32, 33, 43, 45
- JP Morgan 194, 305
- Junkers of Prussia 74

- Kansas City Board of Trade 99–100
- Kent, Pen 233–4
- Kidder Peabody 138, 139
- Kimmins, J.P. 88, 91–2
- KLCCH (Kuala Lumpur Commodity Clearing House) 132–3
- Korea Exchange (KRX) 217
- Kottke, Neal 201
- Kroes, Neelie 247–8, 250
- KRX (Korea Exchange) 217
- Kuala Lumpur Commodity Clearing House (KLCCH) 132–3

- Lacombe, Robert 68, 70–1
- Lamfalussy, Alexandre 241–2, 244
- LBH *see* Lehman Brothers Holdings
- LBI *see* Lehman Brothers Inc.
- LBIE *see* Lehman Brothers International Europe
- LBSA (Lehman Brothers Securities Asia) 42
- LBSF *see* Lehman Brothers Special Financing Inc.
- LCE (London Commodity Exchange) 166

- LCH *see* London Clearing House
- LCH.Clearnet Group 5, 8, 21–3, 45–7, 332–3
 - battle for 306–8
 - buy-side clearing 313–14
 - CDS market 222, 225, 288–9
 - clearing member concentration 194
 - creation of 186, 235–8
 - DTTC merger 298, 303–4, 305–7
 - equity clearing fees 319
 - HKMEx 353
 - interoperability 253, 323–5
 - Lily approach 305–11
 - LSE and 332
 - NYSE Euronext and 326–7
 - open interest 17, 20
 - regulation 239–41
 - risk management 10–11
 - safety concerns 272–4
 - SPAN 143
 - stocks trading 318
 - under threat 259–77
 - see also* Clearnet; RepoClear; SwapClear
- LCH.Clearnet Ltd (Ltd) 4, 11, 23, 26–8, 32–5
 - Code of Conduct 257–8
 - LBIE and 25–32, 36, 38, 43
 - LIFFE and 299
 - NYSE Euronext and 326
- LCH.Clearnet SA (SA) 22–3, 35–7, 257, 260
 - CDS clearing 288–9, 302, 333
 - Euronext and 237, 326–7
 - futures introduction 132
 - Lehman bankruptcy 26, 28, 35–7, 46–7
 - post-trade policy 239–41
 - swap clearing 303–4, 307
- Le Havre, France
 - Caisse de Compensation* 113
 - Caisse de Liquidation* 67–73, 79–81, 98, 109–10
- Le Normand, Mr 68
- leadership 155–8
- Lee, Christian 33
- Leeson, Nick 147–9
- Lefebvre, Olivier 229–30, 261
- legal risk 213, 215
- legislation
 - administration 25–6
 - anti-gambling 65–6, 69, 74–7
 - BOTCC by-laws 107
 - EU Commission 244–6
 - OTC risks 290–2, 295–6
- Lehman Brothers Holdings (LBH)
 - bankruptcy 3–4, 22–3, 25–47, 181, 193–4, 281–2, 348
 - margins 12
- Lehman Brothers Inc. (LBI) 30, 39–41
- Lehman Brothers International Europe (LBIE) 25–6, 28–32, 36–9, 43–6, 314
- Lehman Brothers Securities Asia (LBSA) 42
- Lehman Brothers Special Financing Inc. (LBSF) 26, 28, 33, 43
- libertarian regulation approach 187–8

- Liddell, Roger 27–8, 30–1, 45, 168, 257, 259, 350
appointment of 262–6, 269, 306, 309, 312, 327
at Goldman Sachs 360
retirement 333
- LIFFE *see* London International Financial Futures Exchange
- Lily consortium 305–11
- Lincoln, Blanche 336
- Linklaters 25
- liquidation procedures 40
- liquidity risk 215
- liquidity shortage, LCH.Clearnet SA 36–7
- listed exchanges 183–4
- Liverpool cotton trade 59–61
- LME *see* London Metal Exchange
- Lomas, Tony 26, 43
- London Clearing House (LCH) 54, 164–7, 231–8
cross-margining 143
DCOs 188–9
futures contracts 130–1
ICE and 219
as user-governed CCP 163–9
see also LCH.Clearnet. . .
- London Commodity Exchange (LCE) 166
- London Economics report 250
- London International Financial Futures Exchange (LIFFE) 27, 30, 32, 129–32, 151–2
Bclear service 299, 302
CDS market 225, 333
cross-margining 143
DTB and 160
founding of 164
ICCH and 165
LCH and 166–9, 235, 261, 270–2, 275
MATIF and 156
NYSE 327–8
- London Metal Exchange (LME) 30, 133, 165–7, 306, 308
- London, Mincing Lane 77, 79
- London Produce Clearing House (LPCH) 26, 72, 75–7, 79–94, 359
complete clearing 95
computerisation 116–18
establishment 80–3, 119
inactivity/sale of 93–4
recovery 90–3, 114–16
see also International Commodities Clearing House
- London Stock Exchange (LSE) 55
Barings collapse 146
clearing at 331–3
demutualisation 183
deregulation 165
Deutsche Börse merger 232, 248–9
interoperability 323
LCH relations 238, 261, 268–72
Lily consortium 305–6
SETS market 169
- London Traded Options Market (LTOM) 127
- long-tail risks 180
- LPCH *see* London Produce Clearing House
- LSE *see* London Stock Exchange
- Ltd *see* LCH.Clearnet Ltd
- LTOM (London Traded Options Market) 127
- Lukken, Walter 283, 329
- Luthringhausen, Wayne 141–2, 175, 350
- Lynch amendment 294, 311–12, 336–7
- Lyons trade fairs 52
- MacGregor, Paul 326, 328
- McCreevy, Charlie 246–8, 250–1, 253–5, 288, 293
- McGaw, Ian 164
- McLaren, Peter 114
- Magdeburg Sugar Crash 72, 74
- Malaysia 132–3
- Marché à Terme d'Instruments Financiers (MATIF) 132, 151–2, 155–6, 158–61
- Marché des Options Négociables de Paris (MONEP) 151–2, 156, 158–61
- margins 10–12, 14
Basel II 346–7
Caisse de Liquidation 70
CCP recommendations 213
CME 103
Dojima rice market 56–7
- Marigold plan, LCH.Clearnet 308
- market-based finance crisis 3
- market divisions, LPCH 85–8
- market shares
MTFs 320–1
stock exchanges 317
- Markets in Financial Instruments Directive (MiFID) 15, 38, 245–7, 258, 318, 356–7
effects of 320–1
LSE clearing 331
- marking to market 10, 117
- MATIF *see* Marché à Terme d'Instruments Financiers
- Matt, William 89, 90–1
- MBSCC *see* Mortgage-Backed Securities Clearing Corporation
- MBSs *see* mortgage-backed securities
- Medieval traders 51–2
- Melamed, Leo 119, 122–3, 136, 156, 204
- Memorandum of Understanding and Agreement (MOU) 149, 239, 324
- Merton, Robert 120
- Mesopotamian traders 51
- MiFID *see* Markets in Financial Instruments Directive
- millennium bug 179
- Miller, Merton H. 197–8
- Miller, Robert 127–8, 131
- Mincing Lane, London 77, 79
- Minneapolis, US 95–9, 102, 107, 110
- mitigation of risks 211, 281–96
- MMI index 136
- Möller, George 229
- MONEP *see* Marché des Options Négociables de Paris

- Moore's Law 116, 122
Morgan, Joseph B. 59–60
mortgage-backed securities (MBSs), 171, 173, 313
Mortgage-Backed Securities Clearing Corporation (MBSCC) 171, 173
MOS (Mutual Offset System) 256
MOU *see* Memorandum of Understanding and Agreement
MTFs *see* multilateral trading facilities
multilateral netting 16
multilateral trading facilities (MTFs) 38, 245, 258
 interoperability 324
 LIFFE group 272
 stocks trading 318
 Turquoise project 267, 331
Murray, J.C. 105–6
Mutual Offset System (MOS) 256
mutual ownership, CCPs 184
- NASD (National Association of Securities Dealers) 124–5
Nasdaq 277, 294
 market share 2010 317
 OMX infrastructure 297–8, 311–12, 323–4
Nataf, Maurice 131, 132
National Association of Securities Dealers (NASD) 124–5
National Clearing Centre (NCC) 351–2
National Market System (NMS) 19, 124–5, 317–18
National Securities Clearing Corporation (NSCC) 13–14, 19, 41, 125–6
 1987 crash 140–1
 algorithmic trading 190
 DTCC creation 169–73, 182
 equity clearing 227–8
 Turquoise project 266
 as user-governed CCP 163–4
national securities exchange 124
nationalism 109
NCC (National Clearing Centre) 351–2
NCMs (non-clearing member firms) 8
Netherlands
 Amsterdamsche Liquidatiekas 72–3, 79–80, 91, 109–10
 cross-border clearing 227–9, 232
 'Golden Age' 52–4
 post-trade policy 239–40
netting trades 15–18, 51, 228
New York, 9/11 attacks 211–13
New York Board of Trade (NYBOT) 264, 274–5
New York Clearing House Association 55
New York Coffee Exchange 68–9, 90, 95, 102
New York Federal Reserve Bank 221, 224–5, 283, 285–7
New York Mercantile Exchange (NYMEX) 113, 208–9, 219, 268–9, 276
New York Portfolio Clearing (NYPC) 20, 328–9
New York State, 19th century 61–2
New York Stock Exchange (NYSE) 108
 1987 crash 139, 141
 equity clearing 125–6
 Euronext 156–7, 298–9, 304, 306, 308, 357
 CME challenge 327–30
 European clearing houses 326–7
 LCH.Clearnet and 270, 273, 275, 277, 318
 Lehman bankruptcy 27, 30
 LSE clearing 331–3
 futures introduction 124–6
 LIFFE subsidiary 327–8
 market share 2010 317
 swap clearing 297–8
New Zealand Futures and Options Exchange (NZFOE) 165
Newedge brokerage 312–13
Niederauer, Duncan 360
Nikkei-225 stock index 147–8
Nixon, Richard 118–19
NMS *see* National Market System
non-clearing member firms (NCMs) 8
North America *see* Canada; United States
Nouveau Système de Cotation (NSC) 159
novation 7, 13–14, 83
NSC (Nouveau Système de Cotation) 159
NSCC *see* National Securities Clearing Corporation
NYBOT *see* New York Board of Trade
NYMEX *see* New York Mercantile Exchange
NYPC *see* New York Portfolio Clearing
NYSE *see* New York Stock Exchange
NZFOE (New Zealand Futures and Options Exchange) 165
- Obama, Barack 290–1, 295, 335, 338
OCC *see* Options Clearing Corporation
OM (Optionsmarknaden) 183
OMG *see* Operations Management Group
OMX infrastructure 297–8, 311–12, 323–4
On-line Transaction Information System (OTIS) 122–3
open interest 15–18, 20, 204–5, 209–10
operational risk 211–13, 214
Operations Management Group (OMG) 224, 286
opportunities and risks 211–26
options 12, 120–3, 165
Options Clearing Corporation (OCC) 19, 125, 174–6
 1987 crash 138–41
 CME challenges 330
 cross-margining 141–3
 OTC market 298
 transatlantic solutions 186
 as user-governed CCP 163–4
Optionsmarknaden (OM) 183
ordinary members, LPCH 82
originate and distribute model 179–80, 192
Osaka Securities Exchange (OSE) 147–8, 215–16, 355
Ospel, Marcel 182
OTC market *see* over-the-counter market
OTCderivNet 28, 35, 169, 305
OTIS (On-line Transaction Information System) 122–3

- outsourcing CCPs 344
- over-the-counter (OTC) market 4, 5, 197
 - Basel III 345–7
 - CCorp 208
 - Dodd-Frank Act 335, 337
 - DTCC 173
 - EMIR 339–42, 344
 - energy derivatives 218–19
 - LCH.Clearnet 47, 268–9, 273, 309, 333
 - Minneapolis association 99
 - modern CCPs 7, 12
 - new products 297–9
 - options 120
 - problems with 219–24
 - regulation issues 187–8, 356
 - risks 211, 281–96
 - SwapClear 168, 315
 - world markets 351
- overseas members, LPCH 115
- oversight 214
 - see also* regulation
- ownership issues
 - mutual CCPs 184
 - open interest 17
 - securities 13
- Pacific Exchange 174
- paradigm shifts 298, 358
- parent guarantee rule 140
- Paris, France 71–2, 87, 118, 129, 161, 186
 - see also* LCH.Clearnet SA
- ParisBourse group 161
- Parkinson Report 149–50
- People's Bank of China (PBC) 354
- pepper trade 92–3
- periodic settlement 61
- Persson, Nils-Robert 322
- Peterson, Collin 290
- Pfauwadel, Gérard 155–7, 161
- Philadelphia Stock Exchange 108, 174
- Phillips, George 64
- physical deliveries, CCPs 214
- Pittsburgh consensus 292–3, 339–40, 345
- politics of clearing 284–5
- Portugal 239–40
- post-trade policy, Europe 239–58
- post-trade service consolidation 184–6
- post-war economic growth 113–14
- Powernext 36
- PPS (Protected Payments System) 28
- price fluctuations, First World War 105
- PricewaterhouseCoopers UK (PwC) 25–6, 29–32, 43–4
- profit motive 79–80, 153, 183–4
- program trading 136
- Protected Payments System (PPS) 28
- protectionism 109
- Prussian Junkers 74
- punch card systems 116–17, 122, 123
- PwC *see* PricewaterhouseCoopers UK
- Rainbow project 268–72, 306
- RCHs *see* Recognised Clearing Houses
- Reagan, Ronald 136
- real-time clearing 322
- Recognised Clearing Houses (RCHs) 239–40, 267–8, 271
- recognised investment exchanges (RIEs) 271
- reference entity 192
- Reg NMS (Regulation National Market System) 317–18
- regulation/regulators 135–50, 360
 - Barings collapse 148–50
 - CCP recommendations 214
 - default procedures 46
 - Dodd-Frank Act 335–9, 356
 - Europe 21, 22, 339–45
 - fragmentation of 239–41
 - influence of 123–5
 - libertarian approach 187–8
 - OCC 174
 - risk management interest 348
 - safety vs competitiveness 187–90
 - US 20, 123–5
 - user-governed CCPs 163
- Regulation National Market System (Reg NMS) 317–18
- Reisch, Wal 130, 216
- Renault, Patrice 236
- RepoClear 167–9, 310
- repos (sale and repurchase agreements) 32, 36
- responsibilities of CCPs 21–2
- RGV system 159
- rice market 56–7, 355
- RIEs (recognised investment exchanges) 271
- ring settlement 63–4, 66, 102, 108
- risk management 9–12, 167, 358–9
 - Basel III 345, 347
 - CCP recommendations 215
 - CFMA 189
 - CME 140
 - competition and 358
 - IDCH model 312
 - LCH.Clearnet 32
 - modern CCPs 21–2
 - originate/distribute model 179–80
 - OTCs 281–96
 - regulator interest 348
- risks and opportunities 211–26
- Rolet, Xavier 331–3, 349, 360
- Roman trade 51
- Rotterdamsche Likwidatiekas* 72–3, 91, 109
- rubber contracts 91
- Runge, Julius Joseph 91
- Russia 351–2
- RWE energy 301
- S&P 500 futures 135–6
- SA *see* LCH.Clearnet SA
- safety concerns
 - LCH.Clearnet 272–4

- paradigm shifts 358
- regulators 187–90
- salaries, LPCH 91–2
- sale and repurchase agreements 32, 36
- Santos coffee 71, 92
- SBF Paris Bourse 155–7, 159, 161
- SCG (Securities Clearing Group) 141
- Schaede, Ulrike 56–7
- Schapiro, Mary 350
- Scholes, Myron 120
- Schultz, Wilhelm 81, 88–91
- screen-based exchanges 160–1, 197–9, 204–5
- SEC *see* Securities and Exchange Commission
- Second World War 92–3, 109–10, 113
- securities
 - buy-side clients 313–15
 - clearing 12–14, 19
 - DTC 172
 - HKSCC 42
 - NMS 124–5
 - Target2 payments system 47
- Securities Clearing Group (SCG) 141
- Securities and Exchange Commission (SEC) 19, 120–1, 123–5, 136, 138
 - 1987 crash response 141
 - cross-margining 141–2
 - Dodd-Frank Act 336–8
 - DTCC creation 172
 - equity clearing 126
 - OCC and 175
 - OTC legislation 291
- Securities Industry Financial Markets Association (SIFMA) 41–2
- Securities and Investment Board 148
- securitisation 179–80, 192, 346
- segregated accounts 30
- SEHK (Stock Exchange of Hong Kong) 144
- Seifert, Werner 158, 182–3, 185, 207, 229–32, 248–9, 261
- service provider consolidation 184–6
- SETS market 169, 238
- settlement
 - cash settlement 13, 120–3, 139
 - CBOT 63–4, 66, 108
 - CCP recommendations 214–15
 - CNS 124
 - derivatives 13
 - LCH.Clearnet SA 37
 - Liverpool cotton trade 61
 - New York Coffee Exchange 102
 - Parkinson Report 150
- settlement banks 137, 140
- SFE (Sydney Futures Exchange) 216
- SGX *see* Singapore Exchange Ltd
- SHAMIS (Shared Market Information System) 141
- Shanghai Clearing House 354
- Shared Market Information System (SHAMIS) 141
- shares trading
 - BOTCC 107
 - LPCH 80
- Netherlands 53–4
- shellac futures market 115
- Shultz, George 123
- Sicovam 157, 159, 228–30
- SIFIs (systemically-important financial institutions) 351
- SIFMA (Securities Industry Financial Markets Association) 41–2
- silk trade 69
- SIMEX *see* Singapore International Monetary Exchange
- Singapore Exchange Ltd (SGX) 217, 352
- Singapore International Monetary Exchange (SIMEX) 146–8, 216–17
- single market, Europe 153–5
- SIX Group 275, 319, 323–4
- ‘Small Bang’ 290
- ‘Smithsonian Agreements’ 119
- Société des Bourses Francaises 155–7, 159, 161
- SOFFEX *see* Swiss Options and Financial Futures Exchange
- Spain 310
- SPAN (Standard Portfolio Analysis of Risk) 143
- Sprecher, Jeffrey 218, 264, 350, 359
- Standard Portfolio Analysis of Risk (SPAN) 143
- standards
 - CCPs 213–15
 - ESCB-CESR 243–4
 - OTCs 291–2, 340
- Stock Exchange of Hong Kong (SEHK) 144
- stock exchange traders 4, 53–4, 108, 317–33
- stock markets 12, 14, 19
- stockholdings, BOTCC 107
- subprime crisis 282
- substitutability *see* fungibility
- sugar trade 72, 74
 - complete clearing 110
 - futures introduction 117, 129, 131
 - LPCH 81, 82–92, 94
- Sullivan, Joseph 120
- Swann, Geoffrey 93–4, 115
- Swann, Paul 269
- SwapClear 5, 28, 32–5, 167–9, 333
 - buy-side clients 313–15
 - Lily approach 305–6, 309–10
 - rivals to 311–13
- swaps 12, 32–3, 192–3, 296–315, 336–7
 - see also* Credit Default Swaps; interest rate swaps
- Swiss Options and Financial Futures Exchange (SOFFEX) 151–2, 155, 159–60, 197
- SWX exchanges group 160, 275
- Sydney Futures Exchange (SFE) 216
- systemic risk 340, 358–9
- systemically-important financial institutions (SIFIs) 351
- T+5 settlement 139
- Target2-Securities (T2S) 253
- tariff reductions, LCH.Clearnet 319
- Taylor, Kim 39, 142, 315

- Thatcher, Margaret 128
Théodore, Jean-François 156–7, 159–61, 182, 185,
229–32, 235–7, 260–1
Theoretical Intermarket Margin System (TIMS)
143
time contracts 62
TIMS (Theoretical Intermarket Margin System)
143
tin market 133
TIW *see* Trade Information Warehouse
'to arrive' contracts 68
see also futures contracts
top-down approach, standard contracts
340
Trade Information Warehouse (TIW) 286, 293,
299–300
trade registrations 64, 73, 130, 271
trade repository regulation 340, 344
Tradepoint 167
traders, early history 51–2
trading clubs, Netherlands 53–4
trading staff, CCPs 29
trading venues, CCPs 8–9
transatlantic clearing 186–7, 277, 292–3
transparency 214, 342
Treasury bond futures 121
Trustee Savings Bank (TSB) 128–9
Tupker, Chris 4, 45, 182, 194, 248, 257–9, 319, 327,
333
appointment of 262–6, 269, 306, 309–10
Turquoise project 264–8, 331

UDT *see* United Dominions Trust
UK *see* United Kingdom
underwriters, LPCH 76
United Dominions Trust (UDT) 94, 115–16, 118,
127, 128–9
United Kingdom (UK)
19th century clearing 54–5, 57–61
21st century challenges 179
administration laws 25–6
anti-gambling laws 75–6
bankruptcy procedures 43
CCP failure provisions 349
Companies Act 1989 29, 45
deregulation 153
equity clearing fees 318
First World War 89, 91
futures contracts 126–31, 132
Second World War 93
sugar trade 83–4
user-governed CCPs 163–7
see also London. . .

United States (US) 355–6
19th century clearing 55, 57–9, 61–5, 68–9
21st century challenges 179, 182–8, 190, 194
1987 crash response 140–1
administration laws 25–6
anti-gambling laws 65–6, 75
Barings collapse 148
Bretton Woods collapse 113–33
Chicago futures exchanges 197–210
China versus 351
complete clearing 6, 95–110
DoJ 174–5, 276
energy derivatives 218–19
equity clearing 125–6
futures introduction 113–33
GSCC 168, 170–1, 173
interoperability 252
LCH.Clearnet agreement 268–9
modern CCPs 13, 18–20, 22
OTC risks 281–4, 287–90, 294–5
stock exchanges 317–18
SwapClear rivals 311–13
transatlantic clearing 186–7
user-governed CCPs 163–4, 172–6
see also individual places
user-governed CCPs 163–76, 181–3, 265

Valkyrie plan, LCH.Clearnet 307
Valukas, Anton 39–40
variation margins 11
Verenigde Oost-Indische Compagnie (VOC) 53–4
vertical silos/integration 17, 20, 182, 209–10,
248–51, 344
vertically-structured CCPs 17, 18–21, 274–6
VOC (Verenigde Oost-Indische Compagnie) 53–4
Volcker, Paul 121, 336
Volcker Rule 336

Walker, David 182
Wall Street back offices 124
Wall Street Crash 6, 90, 125
Ward, Declan 326
Warenliquidationskasse 72, 79–81
Weber, Max 73–4
wheat trade 107
see also grain trade
Wigley, Bob 44, 252
Windsor Declaration 149
Winnipeg, Canada 98–9, 100–1
wool futures 115–16
wrong-way risk 345

'Y2K' 179