



## LOS ANGELES

10100 Santa Monica Boulevard  
Los Angeles, CA 90067  
(310) 246-3700/(800) 929-2299

## NEW YORK

277 Park Avenue  
New York, NY 10172  
(212) 351-9700/(800) 371-7087

## LONDON

Imperial Capital (International) LLP  
One Eagle Place  
London SW1Y 6AF  
+44 (0) 207 650 5400

## BOSTON

265 Franklin Street  
Boston, MA 02110  
(617) 478-7600/(888) 478-9696

## CHICAGO

200 South Wacker Drive  
Chicago, IL 60606  
(312) 674-4721

## HOUSTON

1330 Post Oak Boulevard  
Houston, TX 77056  
(713) 892-5601

## MINNEAPOLIS

60 South Sixth Street  
Minneapolis, MN 55402  
(612) 692-6900

## PALM BEACH

3801 PGA Boulevard  
Palm Beach Gardens, FL 33410  
(561) 214-7901

## SAN FRANCISCO

One California Street  
San Francisco, CA 94111  
(415) 615-4000

## STAMFORD

1 Landmark Square  
Stamford, CT 06901  
(203) 428-3300

## Research Industry and Issuer Equity Coverage As of November 1, 2018

### Capital Structure, Publishing and Desk Analysis

- Edward P. Mally, CFA Head of Institutional Research Group, Distressed/Special Situations/Event-driven Security/Technology/Chemicals/Industrials
- Kevin Cohen, CFA Metals/Mining, Paper/Forest Products/Packaging, Publishing/Printing/Internet
- Matthew Farwell, CFA Coal, Energy/E&P, Independent Power Producers
- Mary Ross Gilbert, CFA Consumer/Retail, Food/Restaurants
- Kurt M. Hoffman Distressed/Special Situations/Event-driven Desk Analysis
- Peter Kawada European Distressed/Special Situations Desk Analysis
- Menelaos Tzagkournis European Distressed/Special Situations Desk Analysis
- Megan Barnett Associate
- Booker Smith Associate

### Equity and Industry Analysis

- Michael Derchin Airlines/Transportation and Related
- Irene Haas Energy (Exploration and Production)
- Adam Hackel Airlines/Transportation and Related
- George Kelly, CFA Consumer
- Jeff Kessler Technology Enabled Services
- Saliq Khan Technology Enabled Services
- David W. Miller Media/Entertainment
- Jason Wangler Energy (Exploration and Production)  
Energy Services
- Claire Ye Associate, Energy (Exploration and Production)

## Industry and Issuer Equity Coverage Assignments

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### Airlines (Equities)

15 Companies

Michael Derchin mderchin@imperialcapital.com (212) 351-9793	<ul style="list-style-type: none"> <li>■ Alaska Air Group (ALK)</li> <li>■ Air Transport Services Group (ATSG)</li> <li>■ Allegiant Travel (ALGT)</li> <li>■ American Airlines Group (AAL)</li> <li>■ Atlas Air Worldwide Holdings (AAWW)</li> <li>■ Controladora Vuela Compania (VLRS)</li> <li>■ Copa Holdings SA (CPA)</li> <li>■ Delta Air Lines (DAL)</li> </ul>	<ul style="list-style-type: none"> <li>■ Hawaiian Holdings, Inc. (HA)</li> <li>■ JetBlue Airways Corp. (JBLU)</li> <li>■ Mesa Air Group (MESA)</li> <li>■ SkyWest Airlines (SKYW)</li> <li>■ Southwest Airlines Co. (LUV)</li> <li>■ Spirit Airlines (SAVE)</li> <li>■ United Continental Holdings (UAL)</li> </ul>
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### Airlines-Related Technology and Services (Equities)

4 Companies

Adam Hackel ahackel@imperialcapital.com (212) 351-9413	<ul style="list-style-type: none"> <li>■ Amadeus IT Group (AMS)</li> <li>■ Construction Partners (ROAD)</li> </ul>	<ul style="list-style-type: none"> <li>■ Sabre Corp. (SABR)</li> <li>■ Travelport Worldwide (TVPT)</li> </ul>
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### Chemicals (Capital Structure)

1 Company

Edward P. Mally, CFA emally@imperialcapital.com (212) 351-9768	<ul style="list-style-type: none"> <li>■ MPM Holdings (MPMQ)</li> </ul>
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### Coal, Fertilizers, and Independent Power Producers (Capital Structure)

4 Companies

Matthew Farwell, CFA mfarwell@imperialcapital.com (310) 246-3626	<ul style="list-style-type: none"> <li>■ Dynegy Inc. (DYN)</li> <li>■ Peabody Energy Corporation (BTU)</li> </ul>	<ul style="list-style-type: none"> <li>■ Warrior Met Coal, Inc. (HCC)</li> <li>■ Westmoreland Coal Company (WLB)</li> </ul>
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### Consumer (Equities)

14 Companies

George Kelly, CFA gkelly@imperialcapital.com (212) 351-9476	<ul style="list-style-type: none"> <li>■ Acushnet Holdings Corp. (GOLF)</li> <li>■ Brunswick Corporation (BC)</li> <li>■ Callaway Golf Company (ELY)</li> <li>■ ClubCorp Holdings (MYCC)</li> <li>■ Drive Shack (DS)</li> <li>■ Freshpet, Inc. (FRPT)</li> <li>■ Johnson Outdoors (JOUT)</li> </ul>	<ul style="list-style-type: none"> <li>■ Lindblad Expeditions (LIND)</li> <li>■ MINDBODY, Inc. (MB)</li> <li>■ National Beverage (FIZZ)</li> <li>■ Nautilus, Inc. (NLS)</li> <li>■ Planet Fitness, Inc. (PLNT)</li> <li>■ Town Sports International (CLUB)</li> <li>■ YogaWorks, Inc. (YOGA)</li> </ul>
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### Energy, Exploration & Production (Capital Structure)

1 Company

Matthew Farwell, CFA mfarwell@imperialcapital.com (310) 246-3626	<ul style="list-style-type: none"> <li>■ Amplify Energy Corp. (APFY)</li> </ul>
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### Energy, Exploration & Production (Equities)

20 Companies

Irene Haas ihaas@imperialcapital.com (713) 892-5606	<ul style="list-style-type: none"> <li>■ Alta Mesa Resources, Inc. (AMR)</li> <li>■ Approach Resources, Inc. (AREX)</li> <li>■ Bonanza Creek Energy (BCEI)</li> <li>■ Callon Petroleum Company (CPE)</li> <li>■ Centennial Resource (CDEV)</li> <li>■ Cimarex Energy Company (XEC)</li> <li>■ Energen Corporation (EGN)</li> <li>■ Energy XXI Gulf Coast (EGC)</li> <li>■ EOG Resources (EOG)</li> <li>■ Extraction Oil &amp; Gas (XOG)</li> </ul>	<ul style="list-style-type: none"> <li>■ Jagged Peak Energy (JAG)</li> <li>■ Magnolia Oil &amp; Gas (MGY)</li> <li>■ Matador Resources Company (MTDR)</li> <li>■ Noble Energy, Inc. (NBL)</li> <li>■ Parsley Energy, Inc. (PE)</li> <li>■ PDC Energy, Inc. (PDCE)</li> <li>■ Pioneer Natural Resources (PXD)</li> <li>■ SRC Energy (SRCI)</li> <li>■ WildHorse Resource (WRD)</li> <li>■ WPX Energy, Inc. (WPX)</li> </ul>
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**Energy, Exploration & Production (Equities)**
*18 Companies*

Jason Wangler  
 jwangler@imperialcapital.com  
 (713) 892-5603

- California Resources Corporation (CRC)
- Chaparral Energy, Inc. (CHAP)
- Chesapeake Energy Corp. (CHK)
- Continental Resources, Inc. (CLR)
- Denbury Resources, Inc. (DNR)
- Diamondback Energy, Inc. (FANG)
- Earthstone Energy, Inc. (ESTE)
- Frontera Energy Corp. (FEC.CN)
- Gastar Exploration, Inc. (GST)
- Gulfport Energy Corp. (GPOR)
- Halcón Resources Corp. (HK)
- HighPoint Resources (HPR)
- Northern Oil & Gas, Inc. (NOG)
- Kimbell Royalty Partners, LP (KRP)
- Resolute Energy Corp. (REN)
- Ring Energy, Inc. (REI)
- Viper Energy Partners LP (VNOM)
- Whiting Petroleum (WLL)

**Energy, Oilfield Services (Equities)**
*6 Companies*

Jason Wangler  
 jwangler@imperialcapital.com  
 (713) 892-5603

- Eco-Stim Energy Solutions, Inc. (ESES)
- Mammoth Energy Services, Inc. (TUSK)
- Natural Gas Services Group, Inc. (NGS)
- Pioneer Energy Services Corp. (PES)
- Solaris Oilfield Infrastructure, (SOI)
- Superior Drilling Products, Inc. (SDPI)

**Media/Entertainment (Equities)**
*13 Companies*

David W. Miller  
 dmiller@imperialcapital.com  
 (310) 246-3682

- AMC Entertainment (AMXC)
- AMC Networks, Inc. (AMCX)
- CBS Corp. (CBS)
- Cinemark Holdings, Inc. (CNK)
- Discovery, Inc. (DISCA)
- Lamar Advertising (LAMR)
- Lionsgate Entertainment (LGF)
- Madison Square Garden (MSG)
- MSG Networks (MSGN)
- NetFlix, Inc. (NFLX)
- Outfront Media (OUT)
- Viacom, Inc. (VIAB)
- Walt Disney Company (DIS)

**Special Situations Equities (Capital Structure)**
*4 Companies*

Kurt M. Hoffman (Desk Analysis)  
 khoffman@imperialcapital.com  
 (561) 214-7914

- American Capital, Ltd. (ACAS)
- Global Power (GLPW)
- HC2 Holdings (HCHC)
- Overseas Shipholding Group (OSGIQ)

**Technology (Capital Structure)**
*1 Company*

Edward P. Mally, CFA  
 emally@imperialcapital.com  
 (212) 351-9768

- UTAC Holdings (UTAC)

**Technology Enabled Services (Equities)**
*17 Companies*

Jeff Kessler  
 jkessler@imperialcapital.com  
 (212) 351-9701

Saliq Khan  
 saliq.khan@imperialcapital.com  
 (212) 351-9453

- ABM Industries Inc. (ABM)
- ADT, Inc. (ADT)
- Alarm.com Holdings, Inc. (ALRM)
- Allegion plc (ALLE-W; ALLE)
- Ascent Capital Group, Inc. (ASCMA)
- AXIS Communications AB (AXIS.SS)
- The Brink's Company (BCO)
- Control4 Corp. (CTRL)
- Digimarc Corporation (DMRC)
- FLIR Systems Inc. (FLIR)
- G4S plc (GFS LN)
- Identiv, Inc. (INVE)
- NICE Systems (NICE)
- ShotSpotter, Inc. (SSTI)
- Taser International, Inc. (TASR)
- Verint Systems (VRNT)
- Zebra Technologies Corporation (ZBRA)

**Technology Enabled Services-(Equities)**
*6 Companies*

Saliq Khan  
 saliq.khan@imperialcapital.com  
 (212) 351-9453

- ARC Group Worldwide, Inc. (ARC)
- Arlo Technologies, Inc. (ARLO)
- The ExOne Company (XONE)
- Okta, Inc. (OKTA)
- OneSpan Inc. (OSPN)
- Voxeljet AG (VJET)

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