

California Nanotechnologies Corp.
For the interim period ended August 31, 2013

MANAGEMENT DISCUSSION AND
ANALYSIS

This Management Discussion and Analysis (“MD&A”) should be read in conjunction with the financial statements of California Nanotechnologies Corp. (the “Company” or “Cal Nano”) for the interim period ended August 31, 2013 and the related notes. The Company’s reporting currency is in United States (“US”) dollars and all amounts in this MD&A are expressed in US dollars. The Company reports its financial position, results of operations and cash flows in accordance with International Financial Reporting Standards (“IFRS”), as issued by the IASB. The Company’s functional currency is in United States (“US”) dollars and all amounts in this MD&A are expressed in US dollars. This discussion has been completed as of October 29, 2013.

A. Company Overview

The Company is engaged in the development, processing, marketing and sale of nanocrystalline materials for coatings and bulk material applications. Target markets are the aerospace, defense, automotive, medical, resource development, and sports and recreation industries. The Company’s immediate short-term objectives will be to develop commercial applications for nanostructured materials and to continue collaborating with select universities in nanotechnology research.

The registered and head office of California Nanotechnologies Corp. is located at Suite 1600, 205 – 5th Avenue S.W., Calgary, Alberta T2P 2V7.

The operating office of California Nanotechnologies Corp. is located 17220 Edwards Road, Cerritos, California, 90703.

Cal Nano has been actively building industry recognition through published papers and other scientific endeavors. A listing of recent and planned activities are included below.

Technical Paper for Journals, etc.

[1] C. Melnyk, A. Maxin, B. Weinstein, D. Grant, R. Gansert, Coatings to Extend Equipment Service Life, Fastener Technologies, Inc., Oct./Nov. 2013, pg. 60;

[2] S.S. Dheda, Y.K. Kim, C. Melnyk, W. Liu, F.A. Mohamed, Corrosion and in vitro biocompatibility properties of cryomilled-spark plasma sintered commercially pure titanium, J. Mater. Sci.: Mater. Med., vol. 24, pp. 1236-1249 (2013)

- [3] S.S. Dheda, C. Melnyk, F.A. Mohamed, Addition of titanium nitride nanoparticles for grain size stabilization of cryomilled spark plasma sintered commercially pure titanium, *Materials Science and Engineering A*, vol. 584, pp. 88-96 (2013)
- [4] C. Melnyk, B. Weinstein, D. Grant, R. Gansert, Improved Properties of Light Alloys for Medical Devices Using Near-Nano and Nano-Based Materials, *Materials & Processes for Medical Devices (MPMD)*, Nov. 2011;
- [5] C. Melnyk, B. Weinstein, D. Lujan, D. Grant, R. Gansert, M. Watson, Investigation of Mechanical Properties of Coatings and Bulk Components of Various Grain Sized Tungsten-Carbide-Cobalt Based Materials, *Proceeding of International Thermal Spray Conference*, Sept. 2011, Hamburg, Germany;
- [6] C. Melnyk, B. Weinstein, D. Lujan, D. Grant, R. Gansert, Cold Forged Nano-based Light Alloys and Composites Components, *Fastener Technology Int.*, Aug. 2011;
- [7] C. Melnyk, B. Weinstein, D. Lujan, D. Grant, R. Gansert, Production of Nano-based Light Alloys and Composites for Aerospace Fasteners, *Adv. Mat. & Proc.*, Vol. 169, No. 5, May 2011, pp. 42-44;
- [8] C. Melnyk, S. Schroeder, D. Grant, S. Keener, and R. Gansert, Improved Properties of Cryomilled Light Alloys Consolidated Using Spark Plasma Sintering and Hot Isostatic Pressing, *JOM*, Vol. 63, No. 2, pp. 65-68, 2011; (Collaboration with Boeing Phantom Works);
- [9] M. Pozuelo, C. Melnyk, W. Kao, J.-M Yang, Cryomilling and Spark Plasma Sintering of Nanocrystalline Magnesium-Based Alloy, Submitted to *Journal of Materials Research*, Submission, Oct. 2010; (Collaboration with UCLA);
- [10] C. Melnyk, B. Weinstein, D. Lujan, D. Grant, R. Gansert, Improved Mechanical Properties of WC-10%Co-4%Cr and WC-12%Co Coatings as a Function of Grain Size, *Proceeding of International Thermal Spray Conference*, 2011, Germany, Submission Oct. 2010;
- [11] C. Xu, S. Schroeder, P. Berbon, T. Landgon, Principles of ECAP-Conform as a Continuous Process for Achieving Grain Refinement: Application to an Aluminum Alloy, *Acta Materialia*, Vol. 58, (4), 1379-1386;
- [12] C. Melnyk, S. Schroeder, D. Grant, R. Gansert, and M. Watson, "Improved Mechanical Properties of Coatings and Bulk Components as a Function of Grain Size", *International Thermal Spray Conference Proceedings*, ASM International, Materials Park, OH., USA 2010;
- [13] S. Schroeder, C. Melnyk, D. Grant, S. G. Keener, and R. Gansert, "Improved Properties of Light Alloys produced by Cryomilling (Nano) and Bulk Consolidation Processing", *Proceedings of Aeromat 2009*, Dayton, OH, USA;

[14] S. Schroeder, C. Melnyk, D. Grant, R. Gansert, G. Saha, and L. Glenesk, "Properties of Powders, Coatings, and Consolidated Components Produced from Nano-, and Near-Nano Crystalline Powder", Expanding Thermal Spray Performance to New Markets and Applications, Ed. R. Maple, M. Hyland, Y. Lau, R. Lima, G. Montavon, ASM International, Materials Park, OH., USA 2009;

[15] C. Melnyk, S. Schroeder, D. Grant, G. Saha, L. Glenesk, and R. Gansert "Nano Powders Produce Improved Wear Resistant Thermal Spray Coatings", American Welding Journal, July, 2009, pp. 50 – 55.

PATENTS

[1] US Patent 7,481,091 B1, January 27, 2009, Material Processing System, D. Grant, P. Berbon, T. Wang, P. Burkey.

CONFERENCES ATTENDED IN 2012

[1] ITSC 2012, Houston, TX, Thermal Spray Powders and Coatings Presentation for Oil & Gas Industry, May 13-15, 2012

[2] State University of SUNY Stony Brook, Stony Brook, NY; Nano Carbides Presented within Invited Electronics Presentation, June 6-8, 2012

[3] AWS, Fabtech, Las Vegas, NV, November 13-14, 2012

CONFERENCES ATTENDED IN 2013

[1] 8th Annual EOH Technical Symposium, Nanomaterials: Implications for Environmental and Occupational Health, California State University, Northridge, March 7, 2013

[2] Aeromat 2013, Bellevue, WA, Presentations on Improved Properties of Cermet Coatings as a Function of Grain Size, and a Review of the Properties of Consolidated Forms of Light Alloys Produced from Ultrafine, Nano-, and Near-nano Sized Powders at the conference; April 2-5, 2013

[3] ITSC 2013, Busan, South Korea; May 13-15, 2013

[4] ITSA 2013, Ogden, UT, Presented Advances in Materials, New Industries Entering the Thermal Spray Field at the conference; June 5-6, 2013

[5] MS&T 2013, Montreal, Canada, Improved Properties of Ultrafine, Nano, and Multi-Modal Grain Size Light Alloys Consolidated Using Spark Plasma Sintering, Oct. 29-31, 2013

B. Markets

Cal Nano currently services customers in the aerospace, defense, automotive, medical, resource development and sports and recreation industries. A related company, Omni-Lite Industries, has many long-standing relationships in these areas, providing further access to future key customers.

C. Financial Results

Revenue: For the interim period ended August 31, 2013, the Company reported revenue of \$118,390 compared to \$198,844 from the prior interim period for a decrease of 40%. The decrease is due to the absence of roof coating sales in the current period. The main

sources of revenue this period are from research projects from universities and research centers interested in advanced materials, and the sales of parts made from advanced materials.

Net Loss: Net loss for the interim period ended was \$182,284. Amortization and depreciation expense and salaries, wages and benefits, research and supplies were the greatest expense items. As the Company purchased the necessary equipment to be successful in the nanotechnology field, depreciation expense will continue to be high. Salaries, wages and research may continue to be high as the Company develops expertise in the various fields. Supplies increased due to the increase of revenue from research and nano materials.

Operating Expenses: Overall operating expenses of \$294,286 were lower by 22.9% when compared to the prior interim period. This level is in response to the new sales and expenses relating to research, salaries, wages and benefits due to the growth of the development stage Company within a developing industry. The increase was due to roof coating related expenses reducing.

Loss per share: Basic loss per share was \$0.01 (\$0.01 CDN). The weighted average number of shares was 25,820,000.

Basic loss per share has been calculated using the weighted average number of shares outstanding during the interim period and the loss attributable to common shareholders. For all periods presented, loss attributable to common shareholders equals reported loss.

Diluted earnings per share is calculated based on the treasury stock method, and reflects the potential dilution of securities by including stock options and contingently issuable shares, in the weighted average number of common shares outstanding for a period, if dilutive. Diluted earnings per common share have not been presented as the effect of options and warrants on basic loss per share would be anti-dilutive.

SUMMARY OF FINANCIAL HIGHLIGHTS (US \$)

All figures in US dollars unless noted.

Basic Weighted Average Shares Issued And Outstanding : 25,820,000	For the interim period ended August 31, 2013	For the interim period ended August 31, 2012
Revenue	\$ 118,390	\$ 198,844
Cash flow from operating activities	(126,892)	(191,223)
Net Loss	(182,284)	(210,611)
EPS (US)	(0.01)	(0.01)
EPS (CDN)	(0.01)	(0.01)

(Note: at 08/31/13, \$1US = \$1.053 CDN; 08/31/12, \$1US = \$0.991 CDN)

Selected Quarterly Information

The following table summarizes selected quarterly information from the last eight quarters.

ALL FIGURES IN US DOLLARS UNLESS NOTED

	August 31, 2013	May 31, 2013	February 28, 2013	November 30, 2012	August 31, 2012	May 31, 2012	February 29, 2012	November 30, 2011
Revenue	\$61,855	\$ 56,535	\$40,024	\$22,434	\$136,705	\$ 62,139	\$ 29,164	\$ 25,626
Cash Flow from operating activities	(53,818)	(73,074)	(72,570)	(125,993)	(101,200)	(90,023)	(42,525)	(74,756)
Net Loss	(70,953)	(111,331)	(164,010)	(157,190)	(103,092)	(107,519)	(139,497)	(113,411)
EPS(US)	(.003)	(.004)	(.007)	(.006)	(.004)	(.004)	(.006)	(.004)
EPS(CDN)	(.003)	(.004)	(.007)	(.006)	(.004)	(.004)	(.006)	(.004)

Liquidity and Capital Resources

The following table summarizes the Company's cash flows by activity and cash on hand.

	August 31/2013	August 31/2012
Net cash used for operating activities	\$ (126,892)	\$ (191,223)
Net cash from financing activities	99,635	179,002
Net cash from investing activities	240,037	(10,120)
Net increase (decrease) in cash	212,780	(22,341)
Cash at the beginning of the interim period	5,235	26,967
Cash at the end of the interim period	218,015	4,626

At August 31, 2013, the sources of liquidity were cash from financing and investing activities. The Company had cash of \$218,015. At the end of interim period, the Company's working capital deficiency (current assets – current liabilities) was \$1,028,885.

-Cash flow used for operating activities increased to \$126,892 due to the growth of the development stage Company within a developing industry.

-Cash flow from financing activities was \$99,635. To continue operations, the Company is being funded by a related party.

-Cash flow from investing activities was \$240,037. The disputed investment in the amount of \$250,000 from the settlement agreement was received in full.

The Company's functional and reporting currency is in US dollars; however, the calculation of income tax expense is based on income in the currency of the country of origin. As such, the Company is continually subject to foreign exchange fluctuations, particularly as the Canadian dollar moves against the US dollar.

Foreign Exchange: The Company manages its exposure to foreign currency fluctuations by maintaining foreign currency bank accounts to offset foreign currency payables and planned expenditures. The Company reports in its functional currency, the United States dollar.

Off-Balance Sheet arrangements: The Company does not have any off-balance sheet arrangements.

D. Future Developments

With the successful introduction of the adidas adizero prime SP shoe which features Cal Nano's nano-material spikes, it is expected that orders for these spikes will increase for 2013. In conjunction with the nano-material spike, Cal Nano has developed a spike coating that improves wear resistance. Currently, trials will be conducted at a local college track team to evaluate the improvements qualitatively and quantitatively. It is anticipated that there will be significant interest in this product.

Cal Nano will be applying for a patent covering applications for nano-carbide thermal spray coatings.

After receiving successful results from testing CNO102 nano-carbide coatings in a sub-surface oil and gas application, Cal Nano will begin marketing CNO106, a nano-enhanced, economy grade product. CNO106 will be used in commercial applications that could benefit from high wear and scratch resistance or enhanced grip surface, but do not need the extreme performance of CNO102.

To further utilize the experience that Cal Nano has gained in SPS processing, Cal Nano is in the final stages of discussion to become the Technical Service Agent in North America for the largest OEM and inventor of SPS technology.

White Roof Solutions has been incorporated as a subsidiary of Cal Nano. Larger production scale equipment is also being evaluated by Cal Nano as several potential production products are being developed along with customers and collaborators at Cal Nano.

E. Risk Factors

The Company is subject to a number of risks as outlined below.

Experimental Field

Cal Nano is engaged in the research and development of new materials with the goal of commercializing viable products. The nanotechnology industry and specifically the production of nanocrystalline materials require extensive experimental effort and can require significant investment. Customers may be hesitant to implement any new materials developed without extensive and time-consuming testing.

No Assurance of Commercial Production

Cal Nano is a research and development firm with limited history of production or sales. There is no assurance that it will achieve commercial production of any product or the sale of any such product.

Relationships with Customers

The success of Cal Nano is directly related to the strength of its relationships with and the economic success of its larger customers. Should Cal Nano's relationships with these customers become strained or the profitability of these customers become negatively affected, the Company's profitability may be impacted.

Competition

Cal Nano will be engaged in the technology industry. There is a high degree of competition in Cal Nano's industry which impacts Cal Nano's ability to find and keep customers.

Potential Fluctuations in Financial Results

In the future, if Cal Nano's expected revenues are not realized on a timely basis as anticipated, Cal Nano's financial results could be materially adversely affected.

Financial results in the future may be influenced by these or other factors.

Management of Growth

Any expansion of Cal Nano's business may place a significant strain on its financial, operational and managerial resources. There can be no assurance that Cal Nano will be able to implement and subsequently improve its operations and financial systems successfully and in a timely manner in order to manage any growth it experiences. There can be no assurance that Cal Nano will be able to manage growth successfully. Any inability of Cal Nano to manage growth successfully could have a material adverse effect on Cal Nano's business, financial condition and results of operations.

Government Regulations

Cal Nano may be subject to various laws, regulations, regulatory actions and court decisions that may have negative effects on Cal Nano. Changes in the regulatory environment imposed upon Cal Nano could adversely affect the ability of Cal Nano to attain its corporate objectives.

Reliance on Key Personnel and Consultants

There can be no assurance that any of Cal Nano's directors, officers or employees will remain with Cal Nano or that, in the future, directors, officers or employees will not organize competitive businesses or accept employment with companies competitive with Cal Nano.

Additional Financing Requirements and Access to Capital

Cal Nano may require additional financing to implement its business plan. The ability of the Company to arrange such financing in the future will depend in part upon the prevailing capital market conditions as well as the business performance of Cal Nano. There can be no assurance that Cal Nano will be successful in its efforts to arrange

additional financing, if needed, on terms satisfactory to Cal Nano. If additional financing is raised by the issuance of shares from the treasury of Cal Nano, control of Cal Nano may change and shareholders may suffer additional dilution. There can be no assurance that Cal Nano will generate cash flow from operations necessary to support the continuing operations of Cal Nano.

F. Disclosure Controls and Procedures

Disclosure controls and procedures have been designed to ensure that information required to be disclosed by the Corporation is accumulated and communicated to our management as appropriate to allow timely decisions regarding disclosure. The Company's Chief Executive Officer and Chief Financial Officer have concluded, based on their evaluation at August 31, 2013, that the Company's disclosure controls and procedures are effective to provide reasonable assurance that material information related to Cal Nano, is made known to them by employees or third party consultants working for the Company. It should be noted that while the Company's Chief Executive Officer and Chief Financial Officer believe that the disclosure controls and procedures will provide a reasonable level of assurance and that they are effective, they do not expect that the disclosure controls and procedures will prevent all errors and fraud. A control system, no matter how well conceived or operated, can provide only reasonable, not absolute assurance that the objectives of the control system are met.

Internal Controls over Financial Reporting

The Chief Executive Officer and Chief Financial Officer of Cal Nano are responsible for designing internal controls over financial reporting in order to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with Canadian GAAP. We assessed the design of our internal controls over financial reporting at February 28, 2013. During this process, management identified certain potential weaknesses in internal controls over financial reporting.

Due to the limited number of staff, which is typical of a company our size, it is not feasible to achieve the complete segregation of the duties of all employees.

Management and the board of directors work to mitigate the risk of a material misstatement in financial reporting; however, there can be no assurance that this risk can be reduced to less than a remote likelihood of a material misstatement. Management does not intend to remediate the noted weakness at this time due to an adequate control environment existing in the Company.

G. Outstanding Share Capital

At October 29, 2013:

- 25,820,000 Common Shares issued and outstanding
- Stock options:

Description	Number
Options outstanding at August 31, 2013	1,220,000
Options - granted	-
Options - exercised	-
Options - forfeited	(20,000)
Options - expired	(50,000)
Options outstanding at October 28, 2013	1,150,000
Options exercisable at October 28, 2013	574,994

H. Transactions with Related Parties

For 2013 and 2012, the Company did not pay the Chief Executive Officer (“CEO”) or Chief Financial Officer (“CFO”) a salary for their roles. It is management’s estimate that the fair value of these salaries would be \$65,000 each year. Due to the lack of independent evidence with respect to the fair value of these services, these transaction has been recorded at the carrying amount of \$nil.

The amounts of advances from related party are owed to an entity related through common control. The advances bear interest at 5% through December 31, 2012 and 2% thereafter per annum and are due upon demand. There are no set terms for repayment and the loan is secured by all the assets of the Company. No interest was paid on the advances with accrued interest in the amount of \$104,730 (August 31, 2012 – \$80,417). The related party engaged with the Company for revenue of \$60,112 (August 31, 2012 – \$1,650) and incurred expenses of \$3,657 (August 31, 2012 – \$2,000). The transactions are considered to be in the normal course of operations and are initially recognized at their fair value.

I. Third Party Investor Relations Contracts

No third party investor relations arrangements were made in 2013.

J. Investments

On July 31, 2012, a complaint was filed by the Company with the Superior Court of the State of California by California Nanotechnologies Inc. versus SRL Nano Corporation (“SRL Nano”), Dr. Scott Liu, and Dr. Liu’s other affiliated companies. On January 31, 2013, the parties entered into a settlement agreement and mutual release to have the investment sold to a third party for \$250,000 with a down payment of \$9,000. On August 9, 2013, the sale of the shares and recovery of the \$250,000 investment was completed.

K. Board of Directors

The Company's directors are material shareholders.

L. Financial instruments

The Company as part of its operations carries a number of financial instruments. It is management's opinion that the Company is not exposed to significant interest, currency or credit risks arising from these financial instruments except as otherwise disclosed. The Company manages its exposure to these risks by operating in a manner that minimizes its exposure to the extent practical.

Financial instruments of the Company consist of cash, accounts receivable, investment, accounts payable and accrued liabilities, and advances from related party.

	August 31, 2013		February 28, 2013	
	Carrying Value	Fair Value	Carrying Value	Fair Value
At fair value through profit or loss				
Cash	\$ 218,015	\$ 218,015	\$ 5,235	\$ 5,235
Loans and receivables				
Accounts receivable	11,611	11,611	23,550	23,550
Available for sale				
Investment	-	-	250,000	250,000
Other liabilities				
Accounts payable and accrued liabilities	45,908	45,908	62,847	62,847
Advances from related parties	1,245,059	1,245,059	1,145,424	1,145,424

The table below sets out fair value measurements using fair value hierarchy at August 31, 2013.

	Total	Level 1	Level 2	Level 3
Assets				
Cash	\$ 218,015	\$ 218,015	-	-

There have been no transfers during the interim period between Levels 1, 2 and 3.

As disclosed above, the Company holds various forms of financial instruments. The nature of these instruments and the Company's operations expose the Company to foreign currency risk. The Company manages its exposure to these risks by operating in a manner that minimizes its exposure to the extent practical. The Company does not use off balance sheet contracts to manage these risks.

Liquidity Risk

The Company defines liquidity risk as the financial risk that the Company will encounter difficulties meeting its obligations associated with financial liabilities. The Company's objective for managing liquidity risk is to ensure that it will have sufficient liquidity to meet liabilities when due. This risk is mitigated by managing the cash flow by controlling receivables and payables to vendors and related parties, until the Company emerges from

the development stage. At August 31, 2013, the Company had a working capital deficiency of \$1,028,885 (February 28, 2013 – \$1,145,903).

Foreign currency risk

A portion of the Company's operations are located outside of the United States and, accordingly, the related financial assets and liabilities are subject to fluctuations in exchange rates.

The Company manages its exposure to foreign currency fluctuations by maintaining foreign currency bank accounts and receivables to offset foreign currency payables and planned expenditures. The Company reports in its functional currency, the United States dollar. At August 31, 2013, the Company had the following balances denominated in Canadian dollars. The balances have been translated into United States currency in accordance with the Company's foreign exchange accounting policy.

	USD August 31, 2013	USD February 28, 2013
Cash	\$ 335	\$ 602
Accounts Payable	18,031	33,691

The Company operates with a U.S. dollar functional currency which gives rise to currency exchange rate risk on the Company's Canadian dollar denominated monetary assets and liabilities, such as Canadian dollar bank accounts and accounts payable, as follows:

	Impact on Net Loss
U.S. Dollar Exchange Rate – 10% increase	\$ 17,696
U.S. Dollar Exchange Rate – 10% decrease	(17,696)

Other Price Risk

The Company has financial instruments that may fluctuate in value as a result of changes in market price. The Company had an investment in shares of SRL Nano Corporation. This investment was recorded on the statement of financial position at cost.

Credit risk

The Company manages credit risk by dealing with financially sound customers, based on an evaluation of the customer's financial condition. For the period ended August 31, 2013, the Company was engaged in contracts for products with two (August 31, 2012 – three) customers in excess of 10% of revenue, which accounted for \$85,186 (August 31, 2012 - \$136,695) or 72% (August 31, 2012 – 69%) of the Company's total revenue. The maximum exposure to credit risk is the carrying value of account receivable. The table below provides an analysis of our current financial assets and the age of our past due but not impaired accounts receivables by type of credit risk.

Total	Current	≤ 30 days	> 30 days ≤ 60 days	60 days ≤ 90 days	> 90 days
\$ 11,611	\$ 3,648	\$ 1,900	\$ -	\$ -	\$ 6,063

M. Capital Disclosures

The Company manages its capital to maintain its ability to continue as a going concern and to provide returns to shareholders and benefits to other stakeholders. The capital structure of the Company consists of cash, and equity comprised of issued capital, contributed surplus and deficit.

The Company manages its capital structure and makes adjustments to it in light of economic conditions. The Company, upon approval from its Board of Directors, will balance its overall capital structure through new share issues or by undertaking other activities as deemed appropriate under the specific circumstances.

The Company is not subject to externally imposed capital requirements and the Company's overall strategy with respect to capital risk management remains unchanged from the year ended February 28, 2013.

Intention of management's discussion and analysis

This MD&A is intended to provide an explanation of financial and operational performance compared with prior periods and the Company's prospects and plans. It provides additional information that is not contained in the Company's financial statements.

Additional information

Further information regarding California Nanotechnologies Corp. can be accessed under the Company's public filings found at www.sedar.com.

The information contained in this discussion may be considered to contain forward-looking statements. Such forward-looking statements address future events and conditions and are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated. There is no representation by the Company that actual results will be the same in whole or in part as implied by the forward-looking statements provided.