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Jane Smith

5446882375129691

Exp. 09/16

John Smith

4532014495343

Exp. 02/17Flight

Investigations

Alabama

Dr. R. Michael

Banish

Thermophysical

Property

Measurements of

Te-Based II-VI

Semiconductor

Compounds

University of

Alabama,

Huntsville

Huntsville, AL

Dr. Frank R.

Szofran

Influence of

Containment on

Defects in GeSi

Crystals:

Comparison of

Detached Bridgman

and Floating-Zone

Growth

NASA Marshall

Space Flight

Center

Huntsville, AL

California

Dr. James D.

Trolinger

Investigation of

the Influence of

Microgravity on

Transport

Mechanisms in a

Virtual Space

Flight Chamber

MetroLaser,

Incorporated

Irvine, CA

Dr. Gerald E.

Voecks

Investigation of

Controlled Zeolite

Nucleation and

Crystal Growth

Development

NASA Jet

Propulsion

Laboratory

Pasadena, CA

Illinois

Dr. Richard Weber

Microgravity

Studies of Liquid-

Liquid Phase

Transitions in

Undercooled

Alumina-Yttria

Melts

Containerless

Research, Inc.

Evanston, IL

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Professor August

F. Witt

Identification and

Control of Gravity

Related Defect

Formation During

Melt Growth of

Electro-optic

Single Crystals:

Sillenites

[Bi12SiO20), BSO

Massachusetts

Institute of

Technology

Cambridge, MA

Missouri

Dr. Delbert E. Day

Kinetics of

Nucleation and

Crystal Growth in

Glass Forming

Melts in

Microgravity

University of

Missouri, Rolla

Rolla, MO

Mississippi

Dr. John A. Pojman

Frontal

Polymerization in

Microgravity

University of

Southern

Mississippi

Hattiesburg, MS

New York

Dr. Martin E.

Glicksman

Evolution of Local

Microstructures:

Spatial

Instabilities of

Coarsening

Clusters

Rensselaer

Polytechnic

Institute

Troy, NY

Dr. Matthew B.

Koss

Transient

Dendritic

Solidification

Experiment (TDSE)

Rensselaer

Polytechnic

Institute

Troy, NY

Pennsylvania

Professor Randall

M. German

Gravitational

Effects on

Distortion in

Sintering

Pennsylvania State

University

University Park,

PA

Ground

Investigations

Alabama

Dr. Alexander A.

Chernov

Morphological

Stability of

Stepped Interfaces

Growing From

Solution

Universities Space

Research

Association

Huntsville, AL

Dr. Robert J.

Naumann

Reduction of

Convection in

Closed Tube Vapor

Growth Experiments

University of

Alabama,

Huntsville

Huntsville, AL

Dr. Maria I.

Zugrav

Ground Based

Experiments in

Support of

Microgravity

Research Results -

Vapor Growth of

Organic Nonlinear

Optical Thin Film

University of

Alabama in

Huntsville

Huntsville, AL

Arizona

Professor K. R.

Sridhar

Development of

Superior Materials

for Layered Solid

Oxide

Electrolyzers

Based on

Mechanical and

Thermal Failure

Testing and

Analysis

University of

Arizona

Tucson, AZ

California

Professor James W.

Evans

Exploiting the

Temperature

Dependence of

Magnetic

Susceptibility to

Control Convection

in Fundamental

Studies of

Solidification

Phenomena

University of

California,

Berkeley

Berkeley, CA

Dr. Robert S.

Feigelson

Investigation of

the Crystal Growth

of Dielectric

Materials by the

Bridgman Technique

Using Vibrational

Control

Stanford

University

Stanford, CA

Dr. Lawrence H.

Heilbronn

Radiation

Transmission

Properties of In-

Situ Materials

Ernest O. Lawrence

Berkeley National

Laboratory

Berkeley, CA

Dr. Arlon Hunt

Porosity and

Variations in

Microgravity

Aerogel Nano-

Structures

Lawrence Berkeley

National

Laboratory

Berkeley, CA

Colorado

Dr. Alan R.

Greenberg

Influence of

Solutocapillary

Convection on

Macrovoid Defect

Formation in

Polymeric

Membranes

University of

Colorado

Boulder, CO

Connecticut

Dr. Robert E.

Apfel

Nucleation and

Growth Mechanisms

Underlying the

Microstructure of

Polymer Foams

Produced by

Dynamic

Decompression and

Cooling

Yale University

New Haven, CT

Illinois

Dr. Jennifer A.

Lewis

Colloidal

Stability in

Complex Fluids

University of

Illinois-Urbana

Champaign

Urbana, IL

Dr. Constantine

Megaridis

Microgravity

Investigation on

the Formation of

Oxides and

Adsorbed Oxygen

Films in Solder

Jetting

Applications

Pertinent to the

Electronics

Manufacturing

Industry

University of

Illinois at

Chicago

Chicago, IL

Dr. John S. Walker

Models of Magnetic

Damping for

Bridgman

Semiconductor

Crystal Growth in

Microgravity

University of

Illinois at Urbana

Urbana, IL

Louisiana

Dr. Ben Q. Li

A Comparative

Modeling Study of

Magnetic and

Electrostatic

Levitation in

Microgravity

Louisiana State

University

Baton Rouge, LA

Massachusetts

Professor Peggy

Cebe

Study of

Development of

Polymer Structure

in Microgravity

Using Ellipsometry

Tufts University

Medford, MA

Dr. Albert Sacco

Modeling of

Macroscopic/Micros

copic Transport

and Growth

Phenomena in

Zeolite Crystals

Under Microgravity

Conditions

Northeastern

University

Boston, MA

Maryland

Dr. Geoffrey B.

McFadden

A Phase-

Field/Fluid Motion

Model of

Solidification:

Investigation of

Flow Effects

During Directional

Solidification and

Dendritic Growth

National Institute

of Standards and

Technology

Gaithersburg, MD

Michigan

Professor Thomas

H. Courtney

Gravity Induced

Settling in

Interconnected

Liquid-Solid

Systems

Michigan

Technological

University

Houghton, MI

Minnesota

Professor Jeffrey

J. Derby

Theoretical

Analysis of 3D,

Transient

Convection and

Segregation in

Microgravity

Bridgman Crystal

Growth

University of

Minnesota

Minneapolis, MN

North Carolina

Professor Jerry

Bernholc

Growth and

Properties of

Carbon Nanotubes

North Carolina

State University

Raleigh, NC

New York

Dr. Allan S.

Myerson

Thermodynamic and

Spectroscopic

Studies of

Secondary

Nucleation in

Microgravity

Polytechnic

University

Brooklyn, NY

Dr. Liya L. Regel

Improved Crystal

Quality by

Detached

Solidification in

Microgravity

Clarkson

University

Potsdam, NY

Ohio

Dr. Prabhat K.

Gupta

Interdiffusion in

the Presence of

Free Convection

Ohio State

University

Columbus, OH

Dr. Mohammad

Kassemi

Effect of

Marangoni

Convection

Generated by Voids

on Segregation

During Low-g and

1-g Solidification

NASA Lewis

Research Center

Cleveland, OH

Pennsylvania

Dr. Paul Ducheyne

Surface

Transformation of

Reactive Glass in

a Microgravity

Environment

University of

Pennsylvania

Philadelphia, PA

Tennessee

Dr. Adrienne C.

Friedli

Development of

Anionic

Polyelectrolyte

for Solid Battery

Applications

Middle Tennessee

University

Murfreesboro, TN

Texas

Dr. Francis A.

Cucinotta

Improved Radiation

Transport Code and

Nuclear Data Base

for Evaluation of

Spacecraft

Shielding

NASA Johnson Space

Center

Houston, TX

Dr. Naomi Jean

Halas

Metal Nanoshell

Functionalization

and Materials

Assembly: Effects

of Microgravity

Conditions

Rice University

Houston, TX

Virginia

Dr. Samy Elshall

Gas Phase

Polymerization and

Nucleation

Experiments in

Microgravity

Virginia

Commonwealth

University

Richmond, VA

Dr. John Wilson

Improved

Spacecraft

Materials for

Radiation

Shielding

NASA Langley

Research Center

Hampton, VA

Wisconsin

Dr. Reid F. Cooper

Dynamic-Reduction

and the Creation

of Fine-Grained

Ceramics From

Inviscid

Oxide/Silicate

Melts

University of

Wisconsin, Madison

Madison, WI

Professor Sindo

Kou

Physical

Simulation of

Marangoni

Convection in Weld

Pools

University of

Wisconsin, Madison

Madison, WI

Dr. Eric E. Rice

Carbon-based

Reduction of Lunar

Regolith (CRLB)

Orbital

Technologies

Corporation

Madison, WI

DISCHARGE OF MORTGAGE

THIS IS TO CERTIFY that a certain mortgage dated 10 0f April,2016

made by Alex Smith to John Smith

to secure payment of the sum $1000 , and interest, recorded or registered in the office of the County of United States and State of New Jersey, on 10 of April 2016

in Mortgage Book in Page

is Paid or otherwise Satisfied and Discharged and may be discharged of record.

In Witness Whereof, this discharge of Mortgage has been signed and sealed this 12 day of April,2016.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STATE OF New Jersey

COUNTY OF Bergen

SS:

I CERTIFY that on 20th of April,2016, John Smith

personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(1) is named in and personally signed this document.

(2) signed, sealed and delivered this document as his or her act and deed. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ NOTARY PUBLIC

STATE OF New Jersey

COUNTY OF Bergen SS:

I certify that on 20th of April,2016, Alex Smith, personally came before me and this person acknowledged under oath, to my satisfaction, that:

(1) was the maker of the attached document;

(2) was authorized to and did execute this instrument as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the entity named in this instrument;

(3) executed this instrument as the act of the entity named in this instrument

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTARY PUBLIC